Mastervolt Electrical Products

Mastervolt Contents

MASTERVOLT

THE POWER TO BE INDEPENDENT

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British Marine Federation

Five Depots Nationwide

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CHARGEMASTER BATTERY CHARGERS

CHARGEMASTER BATTERY CHARGERS - 12V CE

The ChargeMaster is suitable for recreational and semi-professional use. Easy to install, it includes a detailed display and easy three-button controls. The ChargeMaster safely charges multiple battery banks at the same time.
3STEP® charging memory ensures more power and a longer life for your batteries.

Part No.		M43011000	M43011500	M44010250
General Specifications	Model:	12/10	12/15-2	12/25-3
Nominal Output Voltage:		12V	12V	12V
Total Charge Current:		10A at 14.25V	15A at 14.25V	25A at 13.25V
No. of Battery Outlets:		1	2	3
Charge Current Second Output:		n/a	15A	25A
Charge Current Third Output:		n/a	n/a	25A
Recommended Battery Capacity:		25 - 100Ah	30 - 150Ah	50 - 250Ah
Nominal Input Voltage:		------- 230V (180-265V) -50/60 Hz --------		120/230V (90-265V) -50/60 Hz
Supplies Your System Without Battery:		No	No	Yes
Display/read-out:		1 LED	1 LED	LED Display
Dimensions (H x W x D in mm):		180 x 121 x 50mm	206 x 121 x 50mm	234 x 132 x 60mm
Dimensions (H x W x D in inch):		7.1 x 4.8 x 2"	8.1 x 4.8 x 2"	9.2 x 5.2 x 2.4"
Weight:		1kg (2.2lbs)	1kg (2.2lbs)	1.8kg (4lbs)
Approvals:		---------- CE, E-mark, ABYC A-31 ----------		See opposite page >>>
Technical Specifications				
Charge Characteristic** :		---------- IUoUo, automatic / 3-step® for gel/AGM/wet/Lithium Ion ----------		
Charge Voltage Bulk (25ºC)***:		14.25V (6 hours)	14.25V (6 hours)	14.4V (8 hours)
Charge Voltage Absorption (25ºC)***:		14.25V (6 hours)	14.25V (6 hours)	14.25V (4 hours)
Charge Voltage Float - wet (25ºC)***:		13.25V	13.25V	13.25V
Laadspanning Float - Gel/AGM (25ºC)***:		13.8V	13.8V	13.8V
Temperature Compensation:		-30 mV/ºC	-30 mV/ºC	-30 mV/ºC
Voltage Compensation:		Automatic	Automatic	Automatic
DC Consumption:		< 1mA	< 1mA	< 2mA
Full Load Consumption (230V AC):		170W	250W	450W
Cos Phi:		> 0.95	> 0.95	≥ 0.98
Temperature Range (ambient temp.):		-25ºC to 60ºC, > 40ºC derating power		-25ºC to 60ºC, > 25ºC derating power
Cooling:		Natural Cooling	--- Maintenance Vario fan to ensure optimised cooling ---	
Sound Level:		< 30 dBA at 1m	< 52 dBA at 1m	< 52 dBA at 1m
Protection Degree:		IP65	IP21	IP23
Protections:		Over temperature, over load, short circuit, high battery, low battery		
MasterBus Compatible:		n/a	n/a	Yes
CSI/DC Alarm:		No	No	Yes, using Multipurpose Contact Output (Part No. M77030500)

CONTROL PANELS / ACCESSORIES

See pages 27 - 28 for further information on Operating, Monitoring & Control Panels and pages 23 - 26 for MasterBus system

Options			
MasterView Read-out (Part. no M77010050)	n/a	n/a	See opposite page >>>
MasterView Easy (Part No. M77010305)	n/a	n/a	See opposite page >>>
MasterShunt (Part No. M77020100)	n/a	n/a	See opposite page >>>
MasterBus USB Interface (Part No. M77030100)	n/a	n/a	See opposite page >>>
Multipurpose Contact Output (Part No. M77030500)	n/a	n/a	See opposite page >>>

** At request also available with 90-400 V DC input voltage. ** The charge characteristic can be set to your requirements.*
**** The battery charge current can sometimes be specified at 20 °C, so take temperature compensation into account.*

Mastervolt ChargeMaster Battery Chargers 12V

CHARGEMASTER BATTERY CHARGERS

M44010350	M44010500	M44010700	M44011000
12/35-3	12/50-3	12/70-3*	12/100-3*
12V	12V	12V	12V
35A at 14.4V	50A at 14.4V	70A at 14.4V	100A at 14.4V
3	3	3	3
35A	50A	10A	10A
35A	50A	10A	10A
70-350Ah	100-500Ah	140-700Ah	200-1000Ah
120/230V (90-265V) -50/60 Hz			
Yes	Yes	Yes	Yes
LED Display	LED Display	LCD Display	LCD Display
291 x 210 x 131mm	291 x 210 x 131mm	362 x 277 x 150mm	362 x 277 x 150mm
11.5 x 8.3 x 5.2"	11.5 x 8.3 x 5.2"	14.3 x 11 x 5.9"	14.3 x 11 x 5.9"
4kg (9lbs)	4kg (9lbs)	7kg (16lbs)	7kg (16lbs)
CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected			
IUoUo, automatic / 3-step ⊕ for gel/AGM/wet/Lithium Ion			
14.4V (8 hours)	14.4V (8 hours)	14.4V (8 hours)	14.4V (8 hours)
14.25V (4 hours)	14.25V (4 hours)	14.25V (4 hours)	14.25V (4 hours)
13.25V	13.25V	13.25V	13.25V
13.8V	13.8V	13.8V	13.8V
-30 mV/ºC	-30 mV/ºC	-30 mV/ºC	-30 mV/ºC
Automatic	Automatic	Automatic	Automatic
< 5mA	< 5mA	< 5mA	< 5mA
575W	825W	1200W	1700W
≥ 0.98	≥ 0.98	≥ 0.98	≥ 0.98
-25ºC to 60ºC, > 40ºC derating power			
Maintenance Vario fan to ensure optimised cooling			
< 52 dBA at 1m	< 52 dBA at 1m	< 52 dBA at 1m	< 52 dBA at 1m
IP23	IP23	IP23	IP23
Over temperature, over load, short circuit, high battery, low battery			
Yes	Yes	Yes	Yes
Yes, using Multipurpose Contact Output (Part No. M77030500)			

M77010050

M77010305

M77020100

M77030100

M77030500

Remote panel for reading the charge status of your battery charger, including error notifications (page 22)

Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting (page 22)

MasterBus integrated shunt, with detailed information on the status of your batteries for a optimised charging process, incl. voltage, current, remaining time and consumption capacity in percentage (page 23)

Communication port between MasterBus and the USB port of your PC; makes possible reading and configuration of your MasterBus system on the PC when combined with MasterView System software (free to download) (page 24).

MasterBus controllable potential-free contact, with alarm notification on the onboard system (low voltage or no AC), replacement of the CSI alarm contact (page 26).

All Mastervolt battery chargers can be connected to a MasterBus network with only one cable and one connection.

CHARGEMASTER BATTERY CHARGERS

CHARGEMASTER BATTERY CHARGERS - 24V CE

The ChargeMaster is suitable for recreational and semi-professional use. Easy to install, it includes a detailed display and easy three-button controls. The ChargeMaster safely charges multiple battery banks at the same time.
3STEP® charging memory ensures more power and a longer life for your batteries.

Part No.		M43020600	M44020120	M44020200
General Specifications	Model:	24/6	24/12-3	24/20-3
Nominal Output Voltage:		24V	24V	24V
Total Charge Current:		6A at 28.5V	12A at 26.5V	20A at 28.8V
No. of Battery Outlets:		1	3	3
Charge Current Second Output:		n/a	12A	20A
Charge Current Third Output:		n/a	12A	20A
Recommended Battery Capacity:		25 - 70Ah	24 - 120Ah	40 - 200Ah
Nominal Input Voltage:		230V (180-265V) -50/60 Hz	---------- 120/230V (90-265V) -50/60 Hz ----------	
Supplies Your System Without Battery:		No	Yes	Yes
Display/read-out:		1 LED	LED Display	LED Display
Dimensions (H x W x D in mm):		180 x 121 x 50mm	234 x 132 x 60mm	291 x 210 x 131mm
Dimensions (H x W x D in inch):		7.1 x 4.8 x 2"	9.2 x 5.2 x 2.4"	11.5 x 8.3 x 5.2"
Weight:		1kg (2.2lbs)	1.8kg (4lbs)	4kg (9lbs)
Approvals:		CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected	
Technical Specifications				
Charge Characteristic** :		---------- IUoUo, automatic / 3-step® for gel/AGM/wet/Lithium Ion ----------		
Charge Voltage Bulk (25ºC)***:		28.5V (6 hours)	28.8V (8 hours)	28.8V (8 hours)
Charge Voltage Absorption (25ºC)***:		28.5V (6 hours)	28.5V (4 hours)	28.5V (4 hours)
Charge Voltage Float - wet (25ºC)***:		26.5V	26.5V	26.5V
Laadspanning Float - Gel/AGM (25ºC)***:		27.6V	27.6V	27.6V
Temperature Compensation:		-60 mV/ºC	-60 mV/ºC	-60 mV/ºC
Voltage Compensation:		Automatic	Automatic	Automatic
DC Consumption:		< 1mA	< 2mA	< 2.5mA
Full Load Consumption (230V AC):		210W	435W	660W
Cos Phi:		> 0.95	≥ 0.98	≥ 0.98
Temperature Range (ambient temp.):		-25ºC to 60ºC, > 40ºC derating power	-25ºC to 60ºC, > 25ºC derating power	-25ºC to 60ºC, > 40ºC derating power
Cooling:		Natural Cooling	---------- Maintenance free vario fan for optimal cooling ----------	
Sound Level:		< 30 dBA at 1m	< 52 dBA at 1m	< 52 dBA at 1m
Protection Degree:		IP65	IP23	IP23
Protections:		---------- Over temperature, over load, short circuit, high battery, low battery ----------		
MasterBus Compatible:		n/a	Yes	Yes
CSI/DC Alarm:		No	Yes, using Multipurpose Contact Output (Part No. M77030500)	

CONTROL PANELS / ACCESSORIES

See pages 27 - 28 for further information on Operating, Monitoring & Control Panels and pages 23 - 26 for MasterBus system

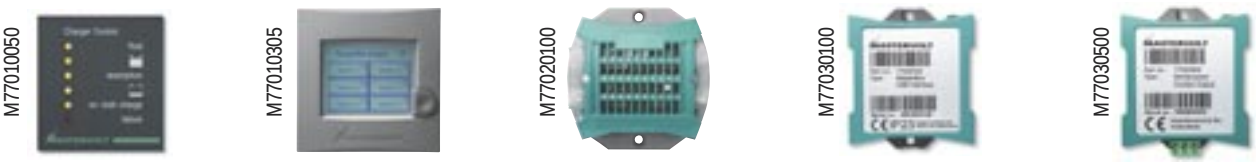
Options			
MasterView Read-out (Part. no M77010050)	n/a	See opposite page >>>	See opposite page >>>
MasterView Easy (Part No. M77010305)	n/a	See opposite page >>>	See opposite page >>>
MasterShunt (Part No. M77020100)	n/a	See opposite page >>>	See opposite page >>>
MasterBus USB Interface (Part No. M77030100)	n/a	See opposite page >>>	See opposite page >>>
Multipurpose Contact Output (Part No. M77030500)	n/a	See opposite page >>>	See opposite page >>>

** At request also available with 90-400 V DC input voltage. ** The charge characteristic can be set to your requirements.*
**** The battery charge current can sometimes be specified at 20 °C, so take temperature compensation into account.*

Mastervolt ChargeMaster Battery Chargers 24V

CHARGEMASTER BATTERY CHARGERS

M44020300	M44020400	M44020600	M44020800	M44021000
24/30-3	24/40-3*	24/60-3*	24/80-3*	24/100-3*
24V	24V	24V	24V	24V
30A at 28.8V	40A at 28.8V	60A at 28.8V	80A at 28.8V	100A at 28.8V
3	3	3	3	3
30A	10A	10A	10A	10A
30A	10A	10A	10A	10A
60-300Ah	80-400Ah	120-600Ah	160-800Ah	200-1000Ah
120/230V (90-265V) -50/60 Hz				
Yes	Yes	Yes	Yes	Yes
LED Display	LCD Display	LCD Display	LCD Display	LCD Display
291 x 210 x 131mm	362 x 277 x 150mm	362 x 277 x 150mm	432 x 277 x 150mm	432 x 277 x 150mm
11.5 x 8.3 x 5.2"	14.3 x 11 x 5.9"	14.3 x 11 x 5.9"	17 x 11 x 5.9"	17 x 11 x 5.9"
4kg (9lbs)	7kg (16lbs)	7kg (16lbs)	8kg (18lbs)	8kg (18lbs)
CE, E-mark, ABYC A-31, SAE J1171/ISO 8846 ignition protected				
IUoUo, automatic / 3-step ⊛ for gel/AGM/wet/Lithium Ion				
28.8V (8 hours)	28.8V (8 hours)	28.8V (8 hours)	28.8V (8 hours)	28.8V (8 hours)
28.5V (4 hours)	28.5V (4 hours)	28.5V (4 hours)	28.5V (4 hours)	28.5V (4 hours)
26.5V	26.5V	26.5V	26.5V	26.5V
27.6V	27.6V	27.6V	27.6V	27.6V
-60 mV/°C	-60 mV/°C	-60 mV/°C	-60 mV/°C	-60 mV/°C
Automatic	Automatic	Automatic	Automatic	Automatic
< 2.5mA	< 5mA	< 5mA	< 5mA	< 5mA
925W	1400W	2000W	2700W	3375W
≥ 0.98	≥ 0.98	≥ 0.98	≥ 0.98	≥ 0.98
-25°C to 60°C, > 40°C derating power				
Maintenance free vario fan for optimal cooling				
< 52 dBA at 1m	< 52 dBA at 1m	< 52 dBA at 1m	< 52 dBA at 1m	< 52 dBA at 1m
IP23	IP23	IP23	IP23	IP23
Over temperature, over load, short circuit, high battery, low battery				
Yes	Yes	Yes	Yes	Yes
Yes, using Multipurpose Contact Output (Part No. M77030500)				



M77010050 — Remote panel for reading the charge status of your battery charger, including error notifications (page 22)

M77010305 — Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting (page 22)

M77020100 — MasterBus integrated shunt, with detailed information on the status of your batteries for a optimised charging process, incl. voltage, current, remaining time and consumption capacity in percentage (page 23)

M77030100 — Communication port between MasterBus and the USB port of your PC; makes possible reading and configuration of your MasterBus system on the PC when combined with MasterView System software (free to download) (page 24).

M77030500 — MasterBus controllable potential-free contact, with alarm notification on the onboard system (low voltage or no AC), replacement of the CSI alarm contact (page 26).

All Mastervolt battery chargers can be connected to a MasterBus network with only one cable and one connection.

MASS BATTERY CHARGERS

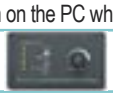
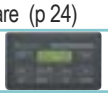
MASS BATTERY CHARGERS CE

Mass battery chargers are designed for the tougher tasks in professional and semi-professional situations. They have one main outlet to optimally charge a battery bank and guarantee a long lifespan for your batteries even with daily and intensive use. The second outlet is used for the maintenance charge of your starter battery.
3STEP® charging memory ensures more power and a longer life for your batteries.

Part No.		M40010606	M40010806	M40020156	M40020256
General Specifications	Model:	12/60-2	12/80-2	24/15-2	24/25-2
Nominal Output Voltage:		12V	12V	24V	24V
Total Charge Current:		60A at 14.25V	80A at 14.25V	15A at 28.5V	25A at 28.5V
No. of Battery Outlets:		2	2	2	2
Charge Current Second Output:		3A	3A	3A	3A
Recommended Battery Capacity:		120 - 600Ah	160 - 800Ah	30 - 150Ah	50 - 250Ah
Nominal Input Voltage:		---------- 230V (180-265V) - 50/60Hz ----------			
Supplies Your System Without Battery:		Yes	Yes	Yes	Yes
Display/read-out:		LED Display	LED Display	LED Display	LED Display
Dimensions (H x W x D in mm):		340 x 261 x 130mm	340 x 261 x 130mm	325 x 220 x 111mm	325 x 220 x 111mm
Dimensions (H x W x D in inch):		13.4 x 10.3 x 5.1"	13.4 x 10.3 x 5.1"	12.8 x 8.7 x 4.4"	12.8 x 8.7 x 4.4"
Weight:		4.6kg / 10.1lbs	4.6kg / 10.1lbs	3.3kg / 7.3lbs	3.3kg / 7.3lbs
Approvals**:		---- CE, E-Mark, ABYC A-31/RRR, RS, DNV, Lloyds, Bureau Veritas, Germanischer Lloyds ---			
Technical Specifications					
Charge Characteristic*** :		---------- IUoUo, automatic / 3-step® for gel/AGM/wet/Lithium Ion ----------			
Charge Voltage Bulk (25ºC)****:		14.25V (8 hours)	14.25V (8 hours)	28.5V (8 hours)	28.5V (8 hours)
Charge Voltage Absorption (25ºC)****:		14.25V (4 hours)	14.25V (4 hours)	28.5V (4 hours)	28.5V (4 hours)
Charge Voltage Float - wet (25ºC)****:		13.25V	13.25V	26.5V	26.5V
Laadspanning Float - Gel/AGM (25ºC)****:		13.8V	13.8V	27.6V	27.6V
Temperature Compensation:		-30 mV/ºC	-30 mV/ºC	-60 mV/ºC	-60 mV/ºC
Voltage Compensation:		---------- Voltage drop compensation in DC cables up to 3 Volt ----------			
DC Consumption:		< 1mA	< 1mA	< 1mA	< 1mA
Full Load Consumption (230V AC):		1100W	1400W	550W	880W
Cos Phi:		> 0.95	> 0.95	> 0.95	> 0.95
Temperature Range (ambient temp.):		---------- -25ºC to 80ºC, > 45ºC derating power ----------			
Cooling:		vario fan	vario fan	vario fan	vario fan
Sound Level:		< 48dBA at 1m	< 48dBA at 1m	< 48dBA at 1m	< 48dBA at 1m
Protection Degree:		IP23	IP23	IP23	IP23
Protections:		---------- over temperature, over load, short circuit, high battery, low battery ----------			
MasterBus Compatible:		Yes	Yes	Yes	Yes
CSI/DC Alarm:		---------- Integrated in the battery charger as standard ----------			
GMDSS Function:		---------- GMDSS panel is available for all models ----------			

CONTROL PANELS / ACCESSORIES

See pages 27 - 28 for further information on Operating, Monitoring & Control Panels and pages 23 - 26 for MasterBus system

Options	
MasterView Read-out (Part. no M77010050)	Remote panel for reading the charge status of your battery charger, including error notifications (p 22)
MasterView Easy (Part No. M77010305)	Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting (p 22)
MasterShunt (Part No. M77020100)	MasterBus integrated shunt, with detailed information on the status of your batteries for a optimised charging process incl. voltage, current, remaining time and consumption capacity in percentage (p 23)
MasterBus USB Interface (Part No. M77030100)	Communication port between MasterBus & the USB port of your PC; makes possible reading & configuration of your MasterBus system on the PC when combined with MasterView System software (p 24)
MasterVision Panels	Model C3-RS Part No. M70403040  Masterlink MICC Part No. M70403105 

** Available as option: second output 3 A (art. no. 21711000. ** Check Mastervolt website for certificates. *** The charge characteristic can be set to your requirements. **** The battery charge current can sometimes be specified at 20 °C, so take temperature compensation into account.*

MASS BATTERY CHARGERS

M40020506	M40020756	M40021006	M40031006	M40040256	M40040506
24/50-2	24/75-C	24/100-C	24/100-3ph	48/25	48/50
24V	24V	24V	24V	48V	48V
50A at 28.5V	75A at 28.5V	100A at 28.5V	100A at 28.5V	25A at 57V	50A at 57V
2	1	1	1	1	1
3A	n/a*	n/a*	n/a*	n/a	n/a
100 - 500Ah	150 - 750Ah	200 - 1000Ah	200 - 1000Ah	100 - 500Ah	100 - 500Ah
---------- 230V (180-265V) - 50/60Hz ----------			3 x 400V (360-485V)	---------- 230V (180-250V) - 50/60Hz ----------	
Yes	Yes	Yes	Yes	Yes	Yes
LED Display	LED Display	LED Display	LED Display	LED Display	LED Display
340 x 261 x 130mm	420 x 318 x 130mm	420 x 318 x 130mm	420 x 318 x 130mm	420 x 318 x 130mm	420 x 318 x 130mm
13.4 x 10.3 x 5.1"	16.5 x 12.5 x 5.1"	16.5 x 12.5 x 5.1"	16.5 x 12.5 x 5.1"	16.5 x 12.5 x 5.1"	16.5 x 12.5 x 5.1"
4.6kg / 10.1lbs	7.7kg / 17lbs	7.7kg / 17lbs	7.7kg / 17lbs	4.6kg / 10.1lbs	7.7kg / 17lbs
---------- CE, E-Mark, ABYC A-31/RRR, RS, DNV, Lloyds, Bureau Veritas, Germanischer Lloyds ----------					
---------- IUoUo, automatic / 3-step ⊕ for gel/AGM/wet/Lithium Ion ----------					
28.5V (8 hours)	28.5V (8 hours)	28.5V (8 hours)	28.5V (8 hours)	57V (8 hours)	57V (8 hours)
28.5V (4 hours)	28.5V (4 hours)	28.5V (4 hours)	28.5V (4 hours)	57V (4 hours)	57V (4 hours)
26.5V	26.5V	26.5V	26.5V	53V	53V
27.6V	27.6V	27.6V	27.6V	55.2V	55.2V
-60 mV/ºC	-60 mV/ºC	-60 mV/ºC	-60 mV/ºC	-120 mV/ºC	-120 mV/ºC
---------- Voltage drop compensation in DC cables up to 3 Volt ----------					
< 1mA	< 1mA	< 1mA	< 1mA	< 1mA	< 1mA
1800W	2600W	3500W	3500W	1800W	3500W
> 0.95	> 0.95	> 0.95	> 0.95	> 0.95	> 0.95
---------- -25ºC to 80ºC, > 45ºC derating power ----------					
vario fan	vario fan	vario fan	vario fan	vario fan	vario fan
< 48dBA at 1m	< 48dBA at 1m	< 48dBA at 1m	< 48dBA at 1m	< 48dBA at 1m	< 48dBA at 1m
IP23	IP23	IP23	IP23	IP23	IP23
---------- Over temperature, over load, short circuit, high battery, low battery ----------					
Yes	Yes	Yes	Yes	Yes	Yes
---------- Integrated in the battery charger as standard ----------					
---------- GMDSS panel is available for all models ----------					

M77010050

M77010305

M77020100

M77030100

---------- Remote panel for reading the charge status of your battery charger, including error notifications (page 22) ----------

----------Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting (page 22) ----------

---------- MasterBus integrated shunt, with detailed information on the status of your batteries for a optimised charging process,----------
incl. voltage, current, remaining time and consumption capacity in percentage (page 23)

---------- Communication port between MasterBus and the USB port of your PC; makes possible reading and configuration of your MasterBus system ----------
on the PC when combined with MasterView System software (free to download) (page 24).

See page 28 for MasterVision panels. QRS232 communication connection for all models

PART NO.S IN RED = TO ORDER ONLY

All Mastervolt battery chargers can be connected to a MasterBus network with only one cable and one connection.

AC MASTER SINE WAVE INVERTERS

AC MASTER SINE WAVE INVERTERS

Suitable for small and medium sized vessels.
An on-board AC installation allows you to use any domestic appliance, from microwave oven to hairdryer, from DVD player to power tools.
A Mastervolt inverter allows you to easily transform the voltage of your 12 or 24V battery to 230V/50Hz so you enjoy all the comforts of home wherever you choose to cruise.
The AC Master inverters are small, lightweight and silent with easy installation and operation.

Part No.		M28010300	M28010500	M27510700
General Specifications	Model:	12/300	12/500	12/700*
Nominal Battery Voltage:		12V	12V	12V
Recommended Battery Capacity:		≥ 60Ah	≥ 100Ah	≥ 150Ah
Output Voltage (±5%):		230V - 50Hz (±0.1%)	230V - 50Hz (±0.1%)	230V - 50Hz (±0.1%)
Continuous power at 25ºC, cos phi I:		300W	500W	750W
Continuous power at 40ºC, cos phi I:		250W	400W	600W
Peak Load:		600W	800W	1200W
Output Waveform:		True Sine	True Sine	True Sine
Efficiency:		90%	90%	90%
Display/read-out:		LED Display	LED Display	LED Display
Dimensions (H x W x D in mm):		210 x 130 x 60mm	210 x 130 x 60mm	275 x 155 x 75mm
Dimensions (H x W x D in inch):		8.3 x 5.1 x 2.4"	8.3 x 5.1 x 2.4"	10.8 x 6.1 x 3"
Weight:		1.16kg (2.55lbs)	1.22kg (2.69lbs)	2.7kg (5.4lbs)
Approvals:		CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31
Technical Specifications				
Technology:		HF switch mode	HF switch mode	HF switch mode
Low Battery Voltage, switches off at:		10V, ± 0.5V	10V, ± 0.5V	10V, ± 0.5V
Low Battery Voltage, switches on at:		11V, ± 0.5V	11V, ± 0.5V	12V, ± 0.5V
High Battery Voltage, switches off at:		16V, ± 0.5V	16V, ± 0.5V	15.3V, ± 0.5V
High Battery Voltage, switches on at:		14.5V, ± 0.5V	14.5V, ± 0.5V	14.2V, ± 0.5V
Max ripple on DC (battery):		10% RMS	10% RMS	5% RMS
Input Current (Nominal Load):		22.5A	37.5A	64A
No Load Power Consumption:				
'On' mode (230V)		0.58A - 7W	0.58A - 7W	0.75A - 9W
Standby (scan mode)		0.33A - 4W	0.33A - 4W	0.37A - 4.5W
Minimal DC Fuse (slow blow)**:		40A	80A	100A
Minimal Cable Size:		Included	Included	25mm^2
Harmonic Distortion Typical:		< 6%	< 6%	< 3%
Cos Phi:		---------- All power factors allowed ----------		
Temperature Range (ambient temp.):		---------- -25ºC to 60ºC, > 25ºC derating power ----------		
Cooling:		Natural/forced	Natural/forced	Natural/forced
Sound Level:		53 dBA at 1m	53 dBA at 1m	53 dBA at 1m
Protection Degree:		IP23	IP23	IP23
Protections:		---------- Over temperature, over load, short circuit, high battery, low battery ----------		
MasterBus Compatible:		No	No	No
AC Connection:		Universal	Universal	Fixed connection

** The AC Master 750 will be available in 2011, intil that date a 700W version is available.*
*** DC Fuse depends on the cable size*

Mastervolt AC Master Sine Wave Inverters

AC MASTER SINE WAVE INVERTERS

M28020300	M28020500	M27520700
24/300	24/500	24/700*
24V	24V	24V
≥ 30Ah	≥ 50Ah	≥ 75Ah
230V - 50Hz (±0.1%)	230V - 50Hz (±0.1%)	230V - 50Hz (±0.1%)
300W	500W	750W
250W	400W	600W
600W	800W	1200W
True Sine	True Sine	True Sine
91%	91%	90%
LED Display	LED Display	LED Display
210 x 130 x 60mm	210 x 130 x 60mm	275 x 155 x 75mm
8.3 x 5.1 x 2.4"	8.3 x 5.1 x 2.4"	10.8 x 6.1 x 3"
1.16kg (2.55lbs)	1.22kg (2.69lbs)	2.7kg (5.4lbs)
CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31
HF switch mode	HF switch mode	HF switch mode
20V, ± 0.5V	20V, ± 0.5V	21V, ± 0.5V
22V, ± 0.5V	22V, ± 0.5V	25V, ± 0.5V
32V, ± 0.5V	32V, ± 0.5V	30.6V, ± 0.5V
29V, ± 0.5V	29V, ± 0.5V	28.4V, ± 0.5V
10% RMS	10% RMS	5% RMS
11A	19A	32A
0.29A - 7W	0.29A - 7W	0.38A - 9W
0.16A - 4W	0.16A - 4W	0.19A - 4.5W
20A	40A	50A
Included	Included	10mm^2
< 6%	< 6%	< 3%
---------- All power factors allowed ----------		
---------- -25ºC to 60ºC, > 25ºC derating power ----------		
Natural/forced	Natural/forced	Natural/forced
53 dBA at 1m	53 dBA at 1m	53 dBA at 1m
IP23	IP23	IP23
---------- Over temperature, over load, short circuit, high battery, low battery ----------		
No	No	No
Universal	Universal	Fixed connection

MASS SINE SINE WAVE INVERTERS

MASS SINE SINE WAVE INVERTERS

Suitable for larger systems on superyachts and for (semi)-professional purposes.
An on-board AC installation allows you to use any domestic appliance, from microwave oven to hairdryer, from DVD player to power tools.
A Mastervolt inverter allows you to easily transform the voltage of your 12 or 24V battery to 230V/50Hz so you enjoy all the comforts of home wherever you choose to cruise.
They have proven themselves in the most extreme conditions for over 10 years and continue to evolve.

Part No.		M24010800	M24011200	M24012000
General Specifications	Model:	12/800	12/1200	12/2000
Nominal Battery Voltage:		12V	12V	12V
Minimum Battery Capacity:		> 100Ah	> 150Ah	> 200Ah
Output Voltage (±5%):		230V - 50Hz (±0.01Hz)	230V - 50Hz (±0.01Hz)	230V - 50Hz (±0.01Hz)
P30 power at 40ºC, cos phi I:		800W	1200W	2000W
Continuous power at 40ºC, cos phi I:		650W	1000W	1800W
Peak Load:		1600W	2400W	4000W
Output Waveform:		True Sine	True Sine	True Sine
Efficiency:		92%	92%	92%
Display/read-out:		LED Display	LED Display	LED Display
Dimensions (H x W x D in mm):		325 x 220 x 111	340 x 261 x 130	420 x 318 x 136
Dimensions (H x W x D in inch):		12.8 x 8.7 x 4.4	13.4 x 10.3 x 5.1	16.5 x 12.5 x 5.4
Weight:		3.9kg (8.6lbs)	8kg (17.4lbs)	14.6kg (32.2lbs)
Approvals:		CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31	CE, E-mark, ABYC A-31
Technical Specifications				
Technology:		HF switch mode	HF switch mode	HF switch mode
Low Battery Voltage, switches off at:		10V, ± 0.5V	10V, ± 0.5V	10V, ± 0.5V
Low Battery Voltage, switches on at:		11V, ± 0.5V	11V, ± 0.5V	11V, ± 0.5V
High Battery Voltage, switches off at:		15.5V, ± 0.5V	15.5V, ± 0.5V	15.5V, ± 0.5V
High Battery Voltage, switches on at:		14.5V, ± 0.5V	14.5V, ± 0.5V	14.5V, ± 0.5V
Max ripple on DC (battery):		5% RMS	5% RMS	5% RMS
Input Current (Nominal Load):		73A	110A	183A
No Load Power Consumption:				
'On' mode (230V)		470mA - 5.6W	450mA - 5W	480mA - 6W
Standby (scan mode)		65mA - 0.8W	43mA - 0.5W	50mA - 0.6W
Minimal DC Fuse (slow blow)*:		100A	150A	250A
Minimal Cable Size:		25mm²	50mm²	70mm²
Harmonic Distortion Typical:		< 5%	< 5%	< 5%
Cos Phi:		---------- All power factors allowed ----------		
Temperature Range (ambient temp.):		---------- -25ºC to 80ºC, > 40ºC derating power ----------		
Cooling:		Natural/forced	Natural/forced	Natural/forced
Sound Level:		48 dBA at 1m	48 dBA at 1m	48 dBA at 1m
Protection Degree:		IP23	IP23	IP23
Protections:		---------- Over temperature, over load, short circuit, high battery, low battery ----------		
MasterBus Compatible:		---------- Yes, using a MasterBus inverter interface or AC power analyser ----------		
AC Connection:		Internal	Internal	Internal

CONTROL PANELS / ACCESSORIES

See pages 27 - 28 for further information on Operating, Monitoring & Control Panels and pages 23 - 26 for MasterBus system

Options	
Model C4-RI (Part. no M70404110)	---------- Remote control on/off for the Mass Sine sine wave inverter ----------
Masterlink/MICC (Part No. M70403105)	---------- Battery consumption meter for 2 batteries, 12/24V DC with LCD read-out, ---------- ---------- remote control for Mass Sine Inverter and Mass Battery Charger or Mass Combi ----------
MasterBus Inverter Interface (Part No. M77030700)	---------- Integrates the Mass Sine inverter in a MasterBus network (page 24) ----------
AC Power Analyser (Part No. M77031200)	--------- Integrates the Mass Sine Inverter in a MasterBus network and visualizes the AC voltage, --------- ---------- current and power (page 25) ----------
Transfer System	---------- The Masterswitch and Systemswitch can be connected to all inverters ----------

** DC Fuse depends on the cable size*

Mastervolt Mass Sine Sine Wave Inverters

MASS SINE SINE WAVE INVERTERS

M24026000

M24027000

Part No.s in red = To Order Only

M24020800	M24021500	M24022500	M24095100	M24026000	M24027000
24/800	24/1500	24/2500	24/5000	24/10kVA	24/15kVA
24V	24V	24V	24V	24V	24V
> 50Ah	> 150Ah	> 200Ah	> 400Ah	> 500Ah	> 800Ah
230V - 50Hz (±0.01Hz)					
800W	1500W	2500W	5000W	10kW	15kW
650W	1200W	2000W	4000W	8kW	13kW
1600W	2900W	5000W	9000W	20kW	30kW
True Sine	True Sine	True Sine	True Sine	True Sine	True Sine
92%	92%	92%	92%	92%	92%
LED Display	LED Display	LED Display	LED Display	LED Display	LED Display
325 x 220 x 111	340 x 261 x 130	420 x 318 x 130	470 x 315 x 254	2x 460.5 x 318 x 143+	3x 460.5 x 318 x 143+
12.8 x 8.7 x 4.4	13.4 x 10.3 x 5.1	16.5 x 12.5 x 5.1	18.5 x 12.4 x 10	475.5 x 318 x 254mm	475.5 x 318 x 254mm
3.9kg (8.6lbs)	8kg (17.4lbs)	14.6kg (32.2lbs)	25kg (55.1lbs)	44kg (97lbs)	55kg (121.3lbs)
CE, E-mark, ABYC A-31					
TECHNICAL SPECIFICATIONS					
HF switch mode	HF switch mode	HF switch mode	HF switch mode	HF switch mode	HF switch mode
19V, ± 0.5V	19V, ± 0.5V	19V, ± 0.5V	19V, ± 0.5V	19V, ± 0.5V	19V, ± 0.5V
22V, ± 0.5V	22V, ± 0.5V	22V, ± 0.5V	22V, ± 0.5V	22V, ± 0.5V	22V, ± 0.5V
32V, ± 0.5V	32V, ± 0.5V	33V, ± 0.5V	32V, ± 0.5V	32V, ± 0.5V	32V, ± 0.5V
30V, ± 0.5V	30V, ± 0.5V	31V, ± 0.5V	30V, ± 0.5V	31V, ± 0.5V	31V, ± 0.5V
5% RMS	5% RMS	5% RMS	5% RMS	5% RMS	5% RMS
36A	68A	115A	230A	4 x 120A	6 x 120A
240mA - 5.6W	200mA - 5W	250mA - 6W	250mA - 6W	180W	180W
35mA - 0.8W	25mA - 0.6W	25mA - 0.6W	n/a	< 10W, 412mA	< 10W, 412mA
63A	100A	160A	1 x 250A or 2 x 125A	4 x 160A	6 x 160A
16mm²	25mm²	50mm²	2 x 70mm²	4 x 50mm²	6 x 50mm²
< 5%	< 5%	< 5%	< 5%	< 2.5%	< 2.5%
All power factors allowed					
-25ºC to 80ºC, > 40ºC derating power					
Natural/forced	Natural/forced	Natural/forced	Natural/forced	Natural/forced	Natural/forced
48 dBA at 1m	48 dBA at 1m	48 dBA at 1m	48 dBA at 1m	48 dBA at 1m	48 dBA at 1m
IP23	IP23	IP23	IP23	IP23	IP23
Over temperature, over load, short circuit, high battery, low battery					
Yes, using a MasterBus inverter interface or AC power analyser					
Internal	Internal	Internal	Internal	Internal	Internal

M70404110

M70403105

M77030700

M77031200

Remote control on/off for the Mass Sine sine wave inverter

Battery consumption meter for 2 batteries, 12/24V DC with LCD read-out, remote control for Mass Sine Inverter and Mass Battery Charger or Mass Combi

Integrates the Mass Sine inverter in a MasterBus network (page 24)

Integrates the Mass Sine Inverter in a MasterBus network and visualizes the AC voltage, current and power (page 25)

The Masterswitch and Systemswitch can be connected to all inverters

All Mastervolt Mass Sine sine wave inverters can be connected to a MasterBus network with only one cable and one connection.

MASS COMBI

MASS COMBI INVERTER CHARGERS

Ideal for most vessels from launches to 16m yachts.
The two 48V models are ideal for electric sailing.

- Power boost from battery when shore power is limited (shore/generator support)
- Charging two individual battery terminals
- Invert to 230 V/50 Hz pure sine wave voltage
- Supplies 12, 24 or 48 Volt onboard power
- Multiple distribution and switching systems
- Two Combis parallel switched for more power
- Meets the ABYC A-31 guideline

Part No.		M36011205	M36012005	M36012505†	M36014005
SINE WAVE INVERTER SPECIFICATIONS	Model:	12/1200-60	12/2000-100	12/2500-100	12/4000-200
Nominal DC Voltage:		12V (10-15V)	12V (10-15V)	12V (10-15V)	12V (10-15V)
Continuous Power at 25ºC, cos phi I:		1200W - 5.3A	2000W - 8.7A	2500W - 10.9A	3750W - 16.5A
Surge Capability (5 sec. resistive):		2400W - 10.5A	4000W - 17.5A	5000W - 21.8A	7500W - 32A
Parallel Use (to double the power):		No	Yes	Yes	No
Parallel with Shore/Generator (for more power):		Yes	Yes	Yes	Yes
Output Voltage (± 5%):		230V - 50Hz, ± 0.05% (60Hz adjustable, ± 0.05%)			
Output Waveform:		True Sine	True Sine	True Sine	True Sine
Efficiency:		90%	90%	90%	90%
DC Consumption at 230V:		< 9W	< 9W	< 9W	< 9W
Search Mode Consumption:		0.5W	0.5W	0.5W	1W
GENERAL SPECIFICATIONS BATTERY CHARGER					
Nominal Input Voltage:		230V (180-265V) - 45-65 Hz			
Max. Charge Current (adjustable):		60A at 14.25V	100A at 14.25V	100A at 14.25V	200A at 14.25V
Primary AC Consumption (full charge):		1035W - 4.5A	1656W - 7.2A	2047W - 8.9A	3312W - 14.4A
Charge Voltage 25ºC (absorption/float):*		14.25 / 13.25V	14.25 / 13.25V	14.25 / 13.25V	14.25 / 13.25V
Charge Characteristic:		IUoUo, automatic / 3 Step⊕ for gel/AGM/wet/Lithium Ion			
Second Charge Output, 3-Step:		5A	5A	5A	2 x 5A
Temperature Sensor for the Battery:		Delivered as standard with 6m (20ft) cable and telejack plug			
GENERAL SPECIFICATIONS					
Display / Read-out:		LED Display	LED Display	LED Display	LED Display
Dimensions (H x W x D in mm):		371 x 318 x 143	496 x 318 x 156	496 x 318 x 156	496 x 318 x 279
Dimensions (H x W x D in inch):		14.6 x 12.5 x 5.6	19.5 x 12.5 x 6.1	19.5 x 12.5 x 6.1	19.5 x 12.5 x 11
Weight:		7.8kg (17.2lbs)	11kg (24.3lbs)	11kg (24.3lbs)	21kg (46.3lbs)
Approvals:		CE, E-mark ABYC A-31			
TECHNICAL SPECIFICATIONS					
Max. Current First Output:		50A	50A	50A	50A
Max. Current Shortbreak / Inverter Output:		25A	25A (35A at 120V)	25A	25A (35A @ 120V)
Transfer Time:		10ms	10ms	10ms	10ms
Grounding:		Yes, Adjustably by DIP Switch			
Temperature range (ambient temp):		-25ºC to 80ºC, > 25ºC derating power			
Cooling:		maintenance free vario fans			
Sound Level:		≤ 48 dBA at 1m	≤ 48 dBA at 1m	≤ 48 dBA at 1m	≤ 48 dBA at 1m
Protection Degree:		IP23	IP23	IP23	IP23
Protections:		Over temperature, over load, short circuit, high battery, low battery			
MasterBus Compatible:		Yes**	Yes**	Yes**	Yes**

CONTROL PANELS/ACCESSORIES

See pages 27 - 28 for further information on Operating, Monitoring & Control Panels and pages 23 - 26 for MasterBus system

OPTIONS					
Remote ICC (Part No. M70405000)	Optional	Delivered as Standard	Optional	Delivered as Standard
	Indication of DC consumption, charge phase, AC present, failure, with on/off/'charger only' switch, 6m (20ft) cable			
Remote APC (Part No. M70405010)	Optional	Optional	Optional	Optional
	Indication of AC consumption, AC voltage, fuse value of the shore/generator connection with power sharing			
Masterlink/MICC (Part No. M70403105)	Optional	Optional	Optional	Optional
	Battery consumption meter for 2 batteries, 12/24V DC with LCD read-out, remote control for Mass Sine Inverter			
MasterView Easy (Part No. M77010305)	Optional**	Optional**	Optional**	Optional**
	Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting			
MasterBus Combi Interface (Part No. M77030475)	Optional**	Optional**	Delivered as standard	Optional**
	Integrates the Mass Combi in a MasterBus network (Page 24)			

** The charge characteristic can be set to your requirements. **In combination with a MasterBus Combi Interface - art no. 77030475.*

† PLEASE NOTE:
12/2500-100 also available with ICC panel instead of MasterBus interface - order Part No. M36012505B

Mastervolt Mass Combi Inverter Chargers

MASS COMBI

Part No.s in red = To Order

M36021205	M36022005	M36022505	M36024005	M36042505	M36045005
24/1200-35	24/2000-60	24/2500-60	24/4000-120	48/2500-35	48/5000-70
24V (20-31V)	24V (20-31V)	24V (20-31V)	24V (20-31V)	48V (40-62V)	48V (40-62V)
1200V - 5.3A	2000W - 8.7A	2500W - 10.9A	3750W - 16.5A	2500W - 10.9A	5000W - 21.8A
2400W - 10.5A	4000W - 17.5A	5000W - 21.8A	7500W - 32A	5000W - 21.8A	8000W - 35A
No	Yes	Yes	No	Yes	No
Yes	Yes	Yes	Yes	Yes	Yes
230V - 50Hz, ± 0.05% (60Hz adjustable, ± 0.05%)					
True Sine	True Sine	True Sine	True Sine	True Sine	True Sine
92%	93%	93%	93%	93%	93%
< 9W	< 9W	< 9W	< 9W	< 9W	< 9W
0.5W	0.5W	0.5W	1W	0.5W	1W
230V (180-265V) - 45-65 Hz					
35A at 28.5V	60A at 28.5V	60A at 28.5V	120A at 28.5V	35A at 57V	70A at 57V
1170W - 5.1A	1965W - 8.5A	1965W - 8.5A	3900W - 17A	2295W - 10A	4590W - 20A
28.5 / 26.5V	28.5 / 26.5V	28.5 / 26.5V	28.5 / 26.5V	57/53V	57/53V
IUoUo, automatic / 3 Step for gel/AGM/wet/Lithium Ion					
5A	5A	5A	2 x 5A	n/a	n/a
Delivered as standard with 6m (20ft) cable and telejack plug					
LED Display	LED Display	LED Display	LED Display	LED Display	LED Display
371 x 318 x 143	496 x 318 x 156	496 x 318 x 156	496 x 318 x 279	496 x 318 x 156	496 x 318 x 279
14.6 x 12.5 x 5.6	19.5 x 12.5 x 6.1	19.5 x 12.5 x 6.1	19.5 x 12.5 x 11	19.5 x 12.5 x 6.1	19.5 x 12.5 x 11
7.8kg (17.2lbs)	11kg / 24.3lbs	11kg / 24.3lbs	21kg / 46.3lbs	11kg / 24.3lbs	21kg / 46.3lbs
CE, E-mark ABYC A-31					
50A	50A	50A	50A	50A	50A
25A	25A (35A @ 120V)	25A	25A (35A @ 120V)	25A	25A
10ms	10ms	10ms	10ms	10ms	10ms
Yes, Adjustably by DIP Switch					
-25ºC to 80ºC, > 25ºC derating power					
maintenance free vario fans					
≤ 48 dBA at 1m	≤ 48 dBA at 1m	≤ 48 dBA at 1m	≤ 48 dBA at 1m	≤ 48 dBA at 1m	≤ 48 dBA at 1m
IP23	IP23	IP23	IP23	IP23	IP23
Over temperature, over load, short circuit, high battery, low battery					
Yes**	Yes**	Yes**	Yes**	Yes**	Yes**
Optional	Delivered as Standard	Optional	Delivered as Standard	Optional	Optional
Indication of DC consumption, charge phase, AC present, failure, with on/off/'charger only' switch, and 6m (20ft) cable					
Optional	Optional	Optional	Optional	Optional	Optional
Indication of AC consumption, AC voltage, fuse value of the shore/generator connection with power sharing					
Optional	Optional	Optional	Optional	Optional	Optional
Battery consumption meter for two batteries, 12/24V DC with LCD read-out and remote control for Mass Sine Inverter					
Optional**	Optional**	Optional**	Optional**	Optional**	Optional**
Touch screen panel for reading charge status, current fold-back and/or Power Sharing setting					
Optional**	Optional**	Delivered as standard	Optional**	Delivered as standard	Delivered as standard
Integrates the Mass Combi in a MasterBus network (Page 24)					

All Mass Combis are compatible with the MasterBus System

DC MASTER CONVERTERS

DC MASTER CONVERTERS

The voltage required for direct current (DC) can vary considerably onboard a yacht. A bowthruster or a winch often works at 24V, while navigation and communication equipment mostly requires 12V. By using a DC-DC converter, other voltages than applied in your basic system can be reached.
They also ensure that all your onboard equipment has a stable power supply with the right voltage.

- Recreational and semi-professional use.
- Easy to install using included mounting bracket.
- Excellent price/performance ratio.
- More power available for two minute intervals, ideal for active marine telephone use.

M81400100

M81400200

M81400300

Part No.		M81400100	M81400200	M81400300	M81400330 *(not shown)*
INPUT SPECIFICATIONS	Model:	24/12-3A	24/12-6A	24/12-12A	24/12-24A
Nominal Input Voltage:		24V	24V	24V	24V
Input Range:		20-32V DC	20-32V DC	20-32V DC	20-32V DC
OUTPUT SPECIFICATIONS					
Nominal Output Voltage:		13.6V	13.6V	13.6V	13.6V
Maximum Power:		82W	136W	245W	408W
Nominal Power:		41W	82W	164W	326W
Current Max. 2 minutes*/continuous:		6A/3A	10A/6A	18A/12A	30A/24A
DC Consumption:		<10mA	<10mA	<10mA	<10mA
GENERAL SPECIFICATIONS					
Dimensions (H x W x D in mm):		67 x 87 x 50	89 x 87 x 50	127 x 87 x 50	167 x 87 x 50
Dimensions (H x W x D in inch):		2.6 x 3.4 x 2	3.5 x 3.4 x 2	5 x 3.4 x 2	6.6 x 3.4 x 2
Weight:		225g (0.5lbs)	270g (0.6lbs)	405g (0.9lbs)	635g (1.3lbs)
Approvals:		CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark
Galvanic Isolation:		No	No	No	No
Stabilised:		Yes	Yes	Yes	Yes
Connections input/output:		Fast-on	Fast-on	Fast-on	Fast-on
Temperature Range (ambient temp):		According to specifications: 0 to 30ºC, thereafter linear derating till 80ºC/storage temp: -25ºC to 85ºC			
Cooling:		Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling
Sound Level:		<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m
Protection Degree:		IP53	IP53	IP53	IP53

DC MASTER CONVERTERS WITH GALVANIC ISOLATOR

Part No.		M81500100	M81500200	M81500300	M81500350 *(not shown)*
INPUT SPECIFICATIONS	Model:	24/12-3A	24/12-6A	24/12-12A	24/12-24A
Nominal Input Voltage:		24V	24V	24V	24V
Input Range:		20-32V DC	20-32V DC	20-32V DC	20-32V DC
OUTPUT SPECIFICATIONS					
Nominal Output Voltage:		13.6V	13.6V	13.6V	13.6V
Maximum Power:		82W	136W	245W	408W
Nominal Power:		41W	82W	164W	326W
Current Max. 2 minutes*/continuous:		6A/3A	10A/6A	18A/12A	30A/24A
DC Consumption:		<10mA	<10mA	<10mA	<10mA
GENERAL SPECIFICATIONS					
Dimensions (H x W x D in mm):		89 x 87 x 50	127 x 87 x 50	167 x 87 x 50	217 x 87 x 50
Dimensions (H x W x D in inch):		3.5 x 3.4 x 2	5 x 3.4 x 2	6.6 x 3.4 x 2	6.6 x 3.4 x 2
Weight:		290g (0.6lbs)	410g (0.9lbs)	590g (1.3lbs)	850g (1.8lbs)
Approvals:		CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark
Galvanic Isolation:		Yes	Yes	Yes	Yes
Stabilised:		Yes	Yes	Yes	Yes
Connections input/output:		Fast-on	Fast-on	Fast-on	Fast-on
Temperature Range (ambient temp):		According to specifications: 0 to 30ºC, thereafter linear derating till 80ºC/storage temp: -25ºC to 85ºC			
Cooling:		Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling
Sound Level:		<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m
Protection Degree:		IP53	IP53	IP53	IP53

DC MASTER CONVERTERS

M81400350

M81400400

M81400500

M81400600

M81400700

M81400350	M81400400	M81400500	M81400600	M81400700	M81400800 *(not shown)*
24/12-50A	12/24-3A	12/24-7A	48/12-6A	48/12-9A	48/12-20A
24V	12V	12V	48V	48V	48V
20-32V DC	10-15.5V DC	10-15.5V DC	40-62 V DC	40-62 V DC	40-62 V DC
13.6V	27.2V	27.2V	13.6V	13.6V	13.6V
720W	109W	245W	109W	132W	326W
500W	82W	191W	82W	108W	272W
60A/50A	4A/3A	9A/7A	8A/6A	11A/9A	24A/20A
<10mA	<110mA	<120mA	<15mA	<15mA	<100mA
300 x 76 x 110	89 x 87 x 50	167 x 87 x 50	89 x 87 x 50	127 x 87 x 50	217 x 87 x 50
11.8 x 3 x 4.3	3.5 x 3.4 x 2	6.6 x 3.4 x 2	3.5 x 3.4 x 2	5 x 3.4 x 2	6.6 x 3.4 x 2
1.2kg (2.6lbs)	290g (0.6lbs)	610g (1.3lbs)	415g (0.9lbs)	415g (0.9lbs)	765g (1.6lbs)
CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark
No	No	No	No	No	No
Yes	Yes	Yes	Yes	Yes	Yes
Fast-on	Fast-on	Fast-on	Fast-on	Fast-on	Fast-on
---------- According to specifications: 0 to 30ºC, thereafter linear derating till 80ºC/storage temp: -25ºC to 85ºC ----------					
Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling
<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m
IP53	IP53	IP53	IP53	IP53	IP53

DC MASTER CONVERTERS WITH GALVANIC ISOLATOR

M81500100

M81500200

M81500400	M81500500	M81500600 *(not shown)*
24/24-3A	24/24-7A	12/12-3A
24V	24V	12V
20-32V DC	20-32V DC	10-15.5V DC
27.2V	27.2V	13.6V
109W	245W	54W
82W	191W	41W
4A/3A	9A/7A	4A/3A
<25mA	<25mA	<100mA
127 x 87 x 50	185 x 87 x 50	67 x 87 x 50
5 x 3.4 x 2	7 x 3.4 x 2	2.6 x 3.4 x 2
590g (1.3lbs)	820g (1.8lbs)	290g (0.6lbs)
CE, E-mark	CE, E-mark	CE, E-mark
Yes	Yes	Yes
Yes	Yes	Yes
Fast-on	Fast-on	Fast-on
---------- See table page 14 ----------		
Natural Cooling	Natural Cooling	Natural Cooling
<30 dBA at 1m	<30 dBA at 1m	<30 dBA at 1m
IP53	IP53	IP53

M81500300

M81500400

M81500500

MAC & MAGIC CONVERTERS

MAC & MAGIC CONVERTERS

The voltage required for direct current (DC) can vary considerably onboard a yacht. A bowthruster or a winch often works at 24V, while navigation and communication equipment mostly requires 12V. By using a DC-DC converter, other voltages than applied in your basic system can be reached. They also ensure that all your onboard equipment has a stable power supply with the right voltage.

The Magic models can regulate the voltage both up and down to ensure an optimal voltage stabilisation, even when the battery voltage fluctuates due to heavy loads. The galvanic isolation between input and output prevents disruptions to, for instance, communication equipment.

- Professional use.
- Battery charger and dimmer function.
- Parallel connection.
- Adjustable output voltage.
- Voltage stabilisation for a longer lifespan of halogen lights, etc.

Part No.		M81200100	M81300100
INPUT SPECIFICATIONS	Model:	Mac 24/12-20	Magic 24/12-20
Nominal Input Voltage:		24V	24V
Input Range:		20-32V DC	19-32V DC
Input Range, 3-step + charge mode:		24-32V DC	24-32V DC
Lower Input Set Point:		20V DC*	20V DC*
Delay Lower Input Set Point:		30 sec.*	30 sec.*
OUTPUT SPECIFICATIONS			
Factory Setting:		13.6V DC*	13.6V DC*
Voltage Adjustable:*		10-15V DC	10-15V DC
Output Voltage Dimmer:*		4-13V DC	4-13V DC
Stabilised:		---------- 2% at extremes of temperatures, load and input ----------	
Ripple:		Max 1% peak peak	Max 1% peak peak
Power (max./nominal):		300 / 270W	300 / 300W
Max. Current:		20A	20A
Charge Current - 3-step + mode:		16A	16A
GENERAL SPECIFICATIONS			
Galvanic Isolation:		No	Yes
Voltage Limited:		Yes	Yes
Efficiency:		---------- >90% (at nominal input voltage, full load); 92% peak ----------	
Protected Against Overload:		Yes	Yes
Protected Against Over Temperature:		Yes	Yes
Dimmer Function:		Yes, by external momentary switch via fast-on connection, to be activated by DIP-switch setting	
Alarm Contact:		No	Yes (fast-on connector)
Dimensions (H x W x D in mm):		190 x 130 x 61	227 x 154 x 81
Dimensions (H x W x D in inch):		7.5 x 5.1 x 2.4	8.9 x 6.1 x 3.2
Weight:		1.0kg (2.2lbs)	1.8kg (4lbs)
Approvals:		CE	CE
TECHNICAL SPECIFICATIONS			
3-step + Charge Option:		Yes (DIP switch settings)	Yes (DIP switch settings)
DC Consumption:		<30mA	<115mA
Connections input/output:		---------- Screw terminals, maximum wire size 16mm² / AWG5 ----------	
Temperature Range (ambient temp.):		---------- -25ºC to 80ºC, > 40ºC derating power ----------	
Cooling:		Natural Cooling	Maintenance free Vario fans
Sound Level:		<30 dBA at 1m	<48 dBA at 1m
Protection Degree:		IP21	IP21
MasterBus Compatible		------- Yes, by means of MasterBus Serial Interface (Part No. M77030450) ----------	

CONTROL PANELS/ACCESSORIES

See pages 27 - 28 for further information on Operating, Monitoring & Control Panels, and pages 23-26 for MasterBus System

OPTIONS

PC-Link (Part No. M21730300)	Interface between Magic converter and PC, in combination with the MasterAdjust software (free to download). The PC-Link can be directly connected to a computer serial port. Galvanically isolated.
MasterView Easy (Part No. M77010305)	Touch screen panel for reading status and dimmer function settings (page 22).
MasterBus Serial Interface (Part No. M77030450)	Integrates the Mac & Magic converters in a MasterBus network (page 24).

** Adjustable with MasterAdjust software.*

MAGIC CONVERTERS

M81300200	M81300400	M81300300
Magic 24/24-20	Magic 12/12-20	Magic 12/24-10
24V	12V	12V
19-32V DC	11-16V DC	11-16V DC
24-32V DC	12-16V DC	12-16V DC
20V DC*	10V DC*	10V DC*
30 sec.*	30 sec.*	30 sec.*
27.2V DC*	13.6V DC*	27.2V DC*
20-28.5V DC	10-15V DC	20-28.5V DC
8-26V DC	4-13V DC	8-26V DC
---------- 2% at extremes of temperatures, load and input ----------		
Max 1% peak peak	Max 1% peak peak	Max 1% peak peak
580 / 580W	300 / 300W	300 / 300W
20A	20A	10A
16A	16A	8A
Yes	Yes	Yes
Yes	Yes	Yes
---------- >90% (at nominal input voltage, full load); 92% peak ----------		
Yes	Yes	Yes
Yes	Yes	Yes
---------- Yes, by external momentary switch via fast-on connection, to be activated by DIP-switch setting ----------		
Yes (fast-on connector)	Yes (fast-on connector)	Yes (fast-on connector)
227 x 154 x 81	227 x 154 x 81	227 x 154 x 81
8.9 x 6.1 x 3.2	8.9 x 6.1 x 3.2	8.9 x 6.1 x 3.2
1.8kg (4lbs)	1.8kg (4lbs)	1.8kg (4lbs)
CE	CE	CE
Yes (DIP switch settings)	Yes (DIP switch settings)	Yes (DIP switch settings)
<115mA	<115mA	<115mA
---------- Screw terminals, maximum wire size 16mm^2 / AWG5 ----------		
---------- -25ºC to 80ºC, > 40ºC derating power ----------		
Maintenance free Vario fans	Maintenance free Vario fans	Maintenance free Vario fans
<48 dBA at 1m	<48 dBA at 1m	<48 dBA at 1m
IP21	IP21	IP21
---------- Yes, by means of MasterBus Serial Interface (Part No. M77030450) ----------		

OPTIONS

PC-Link (Part No. M21730300)	Interface between Magic converter and PC, in combination with the MasterAdjust software (free to download). The PC-Link can be directly connected to a computer serial port. Galvanically isolated.
MasterView Easy (Part No. M77010305)	Touch screen panel for reading status and dimmer function settings (page 22).
MasterBus Serial Interface (Part No. M77030450)	Integrates the Mac & Magic converters in a MasterBus network (page 24).

BATTERY ACCESSORIES

M83007021

M83007030

M83012021

M83012031

BI BATTERY ISOLATORS

Mastervolt's BI battery isolators are based on conventional diode technology. The diode voltage drop (ca. 0.6 V) can be compensated for by adapting the output current of the connected charger. Mastervolt battery chargers and Alpha Pro alternator regulators come as standard with automatic compensation for voltage drops.

Part No.	M83007021	M83007030	M83012021	M83012031
Model	BI 702-S	BI 703	BI 1202-S	BI 1203-S
Max. Output Charger:	25/50A	25/50A	80A	80A
Max. Output Alternator:	70A	70A	120A	120A
Compensation Diode:	Yes	No	Yes	Yes
Dimensions (H x W x D)mm:	157x140x80mm	---------- 207 x 140 x 80mm ----------		
Dimensions (H x W x D)inch:	(6.2x5.5x3.2")	---------- 8.2 x 5.5 x 3.2" ----------		
Weight:	0.58kg (1.3lbs)	1.1kg (2.4lbs)	1.2kg (2.65lbs)	1.3kg (2.9lbs)
No. of Battery Banks:	2	3	2	3

BATTERY MATE IG

The Battery Mate is compatible with any type of alternator/battery charger, in both existing and new systems.
As the voltage loss between the alternator and battery is negligible, the Battery Mate performs far better than conventional battery isolators. This ensures fast and complete charging of your batteries without having to make additional adjustments to the alternator.
The Mastervolt Battery Mate can be used in any application even if the standard alternator needs external excitation or voltage sensing. In this case the additional IG contact can be connected.

M83116025

M83116035

M83125035

Part No.	M83116025	M83116035	M83125035
Model	1602	1603	2503
Max. Output of Battery Charger:	120A	120A	200A
Max. Output of Alternator:	160A	160A	250A
Dimensions (H x W x D):	---------- 207 x 140 x 80mm (8.2 x 5.5 x 3.2") ----------		
Weight:	1Kg (2.2lbs)	1Kg (2.2lbs)	1Kg (2.2lbs)
No. of Battery Banks:	2	3	3

CHARGE MATE

An auxiliary onboard power supply is increasingly common. As a second battery can prevent the main battery from depleting and being unable to start, this seems like a safe and reliable solution. The second battery, however, also has to be charged regularly. Mastervolt has the solution: The Charge Mate connects both batteries with a voltage relay while charging, and keeps them isolated at other times. The Charge Mate is especially practical for small systems.

M83301202

M83302502

Part No.	M83301202 NEW	M83302502
Model	1202	2502
Battery Voltage:	12/24V	12/24V
Continuous Rating:	120A	500A
Inrush Current (250ms):	2000A	2000A
Switch on Voltage:	13...15V (12V) / 26...30V (24V)	13...15V (12V) / 26...30V (24V)
Switch on Delay:	5 seconds	5 seconds
Switch off Voltage:	<12.75V (12V) <25.50V (24V)	<12.25...> 15V (12V) <25.5...> 30V (24V)
Switch off Delay:	No	No
Optional temperature:	-40 to 65ºC	-40 to 65ºC
Dimensions, H x W x D:	76 x 46 x 46mm (3 x 1.8 x 1.8")	90 x 80 x 85mm (3.5 x 3.1 x 3.3")
Weight:	0.125kg (0.28lbs)	0.65kg (1.4lbs)
Protection degree:	IP21	IP21
Number of Modes:	On, off, auto, emergency start	On, off, auto, emergency start
Power Consumption:	switch open: <1mA @ 12/24V DC	switch open: <1mA @ 12/24V DC

BATTERY WATCH

The Battery Watch is an essential element of any well-equipped battery system, offering you a 600 gram electronic watchdog that ensures a much longer lifespan for your batteries.
The unit monitors the optimum condition of your batteries and can also be used as a main battery isolation switch. LED lights provide a clear read out and the undervoltage can be set using DIP switches.

Part No.	M83200150
Maximum Load:	150A
Input Voltage:	8-32V DC
Switch off under voltage 12V:	9-12V DC
Switch off under voltage 24V:	18-24V DC
Dimensions (L x W x H):	157 x 140 x 80mm (6.2 x 5.5 x 3.2")
Weight:	0.6Kg (1.3lbs)

AGM BATTERIES

AGM 12V BATTERIES

- Ideal universal battery
- Excellent starter function
- Perfect upgrade for wet lead acid batteries
- Same initial power surge in an AGM 12/90Ah as in a 180Ah wet lead-acid battery
- Use of thicker plates allows deep discharging
- Glass-fibre technology ensures low internal resistance
- Also for cyclic use

Part No.	M62000550	M62000700	M62000900	M62001300	M62001600	M62002250	M62002700
Model	12/55	12/70	12/90	12/130	12/160	12/225	12/270
Nominal Voltage:	12V	12V	12V	12V	12V	12V	12V
Capacity C20:*	55Ah	70Ah	90Ah	130Ah	160Ah	225Ah	270Ah
CCA to DIN:	300A	385A	535A	585A	630A	815A	1000A
CCA to SAE:	480A	615A	850A	935A	1000A	1300A	1600A
Dimensions (incl. poles):							
L x W x H (mm)	257x132x207	348x167x181	330x173x237	410x177x228	485x170x245	522x240x241	522x268x243
L x W x H (inches)	10.1x5.2x8.2	13.7x6.6x7.1	13x6.8x9.3	16.1x7x9	19.1x6.7x9.6	20.6x9.4x9.5	20.6x10.6x9.6
Weight:	17kg	21.5kg	28kg	37.6kg	42.3kg	63.5kg	73kg
	37.5lbs	47lbs	62lbs	83lbs	93lbs	140lbs	161lbs

* C20 standard = battery capacity at a discharge time of 20 hours, til 1.75V per cell.

AGM 12V SLIMLINE BATTERIES

- Ideal universal battery; also for starter functions
- Compressed AGM technology
- Saves up to 15% in volume
- Saves up to 15% in weight
- Miniscule footprint; 2x 185 Ah for a 200Ah battery footprint
- Two-year warranty

NEW

Part No.	M63001150	M63001500	M63001850
Model	12/115	12/150	12/185
Nominal Voltage:	12V	12V	12V
Capacity C20:*	115Ah	150Ah	185Ah
CCA to DIN:	545A	610A	750A
CCA to SAE:	910A	1020A	1250A
Dimensions (incl. poles):			
L x W x H (mm)	560x110x233	560x110x280	560x126x280
L x W x H (inches)	22x4.3x9.2	22x4.3x11	22x5x11
Weight:	35.6kg	40.5kg	54kg
	78lbs	89lbs	119lbs

* C20 standard = battery capacity at a discharge time of 20 hours, til 1.75V per cell.

AGM 6 VOLT SERIES

NEW

- Ideal solution for cyclic applications, such as electric propulsion, wheelchairs, golf carts, etc.
- Easy configuration of 12/24/48 V battery terminals, with high capacity
- Double pole for easy installation
- No gas formation with normal use
- Two-year warranty

Part No.	M61002600	M61003400	M61004000
Model	6/260 Ah	6/340 Ah	6/400 Ah
Nominal Voltage:	6V	6V	6V
Capacity C20:*	260Ah	340Ah	400Ah
Dimensions (incl. poles):			
L x W x H (mm)	295x180x298	295x180x366	295x180x428
L x W x H (inches)	11.6x7.1x11.7	11.6x7.1x14.4	11.6x7.1x16.9
Weight:	36kg	48.9kg	55.7kg
	79.3lbs	107.7lbs	122.7lbs

* C20 standard = battery capacity at a discharge time of 20 hours, til 5.25V.

Part No.s in red = To Order Only

DELIVERY
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MVSV BATTERIES

MVSV 2V GEL BATTERIES

- Long lifespan
- Many charging and discharging cycles
- Charges quickly
- Extremely sustainable battery for large installations
- Robust build for longer lifespan
- Deep discharging without problems
- Can be installed horizontally or vertically
- Seven-year warranty (pro rata)

Part No.	M68000280	M68000420	M68000500	M68000580	M68000750	M68001000
Model	280	420	500	580	750	1000
Nominal Voltage:	2V	2V	2V	2V	2V	2V
Capacity C20:*	280Ah	420Ah	500Ah	580Ah	750Ah	1000Ah
Dimensions (incl. poles)						
LxWxH (mm)	125 x 207 x 401	125 x 207 x 517	146 x 207 x 517	167 x 207 x 517	146 x 207 x 693	211 x 192 x 693
LxWxH (inches)	4.9 x 8.2 x 15.8	4.9 x 8.2 x 20.4	5.7 x 8.2 x 20.4	6.4 x 8.2 x 20.4	5.7 x 8.2 x 27.3	8.3 x 7.6 x 27.3
Weight:	22kg 48.5lbs	32kg 70.5lbs	37kg 81.6lbs	42kg 92.6lbs	50kg 110.2lbs	68kg 150lbs

Part No.	M68001250	M68001500	M68001650	M68002200	M68002700
Model	1250	1500	1650	2200	2700
Nominal Voltage:	2V	2V	2V	2V	2V
Capacity C20:*	1250Ah	1500Ah	1650Ah	2200Ah	2700Ah
Dimensions (incl. poles)					
LxWxH (mm)	211 x 234 x 693	211 x 276 x 693	211 x 276 x 843	214 x 399 x 819	214 x 488 x 819
LxWxH (inches)	8.3 x 9.2 x 27.3	8.3 x 10.9 x 27.3	8.3 x 10.9 x 33.2	8.4 x 15.7 x 32.3	8.4 x 19.2 x 32.2
Weight:	82kg 180.8lbs	98kg 216lbs	112kg 247lbs	153kg 337.3lbs	196kg 432.1lbs

* C10 = battery capacity at a discharge time of 10 hours, till 1.80 V per cell

Part No.s in red = To Order Only

LITHIUM ION BATTERIES

Lithium Ion batteries have a high energy density and are perfect for cyclic applications. Compared to traditional lead-acid batteries, Lithium Ion batteries offer savings of up to 70% in volume and weight, while the number of charging cycles is three times as large.

Another major benefit of the Mastervolt Li-ion battery is that it is equipped with a Cell Management System, which automatically compensates for any imbalance between the cells to guarantee a longer battery lifespan.

Part No.	M66010320	M66020160
Model	12/320	24/160
Nominal Voltage:	13.25V	26.5V
Capacity C20:*	320Ah/4.3kWh	160Ah/4.3kWh
Dimensions (incl. poles)		
LxWxH (mm)	623 x 199 x 345	623 x 199 x 345
LxWxH (inches)	24.5 x 7.8 x 13.6	24.5 x 7.8 x 13.6
Weight:	±55kg, 90Wh/kg 121lbs	±55kg, 90Wh/kg 121lbs

* Battery capacity at a discharge time of 1 till 20 hours

- Highly advanced technology.
- Multifunctional battery of 4.3 kWh
- 12 and 24 Volt available
- Saves up to 70% in space
- Saves up to 70% in weight
- Triple the lifespan
- Ultra-fast charging and discharging (up to one C)
- High efficiency
- MasterBus communication with every Mastervolt battery charger
- Integrated system for battery management including cell balancing
- Safest Li-ion available
- Designed for systems up to 250V DC
- Suitable for onboard AC networks and electric sailing

DELIVERY
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Mastervolt 12V Gel Batteries & Terminals

MVG BATTERIES

M64000250

M64000550

M64000850

M64001200

MVG 12V GEL BATTERIES

- Perfect service battery for medium and large 12V and 24V systems.
- Extremely long lifespan.
- No gas formation with normal use.
- Fast recharge, high charge current possible.
- For intensive cycle use with a high number of charge/discharge cycles.
- Very low self discharge.
- Two-year warranty

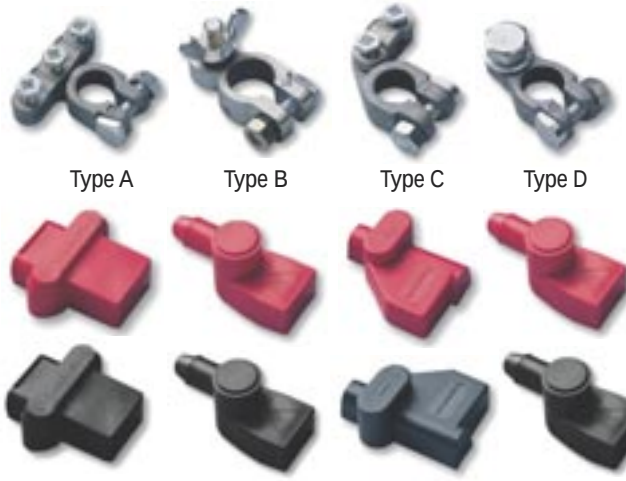
M64001400

M64002000

Part No.	M64000250	M64000550	M64000850	M64001200	M64001400	M64002000
Model	12/25	12/55	12/85	12/120	12/140	12/200
Nominal Voltage:	12V	12V	12V	12V	12V	12V
Capacity C20:*	25Ah	55Ah	85Ah	120Ah	140Ah	200Ah
CCA to DIN:	110A	230A	270A	450A	540A	630A
CCA to SAE:	175A	380A	450A	760A	920A	1100A
Dimensions (incl. poles)						
LxWxH (mm)	167 x 176 x 126	261 x 136 x 230	330 x 171 x 236	513 x 189 x 223	513 x 223 x 223	518 x 274 x 238
LxWxH (inches)	6.6 x 6.9 x 5	10.3 x 5.4 x 9	13 x 6.7 x 9.3	20.2 x 7.4 x 8.8	20.2 x 8.8 x 8.8	20.4 x 10.8 x 9.4
Weight:	9.6kg	19kg	32.6kg	41kg	49kg	70kg
	21.2lbs	41.9lbs	71.9lbs	90.4lbs	108lbs	154.3lbs

* C20 standard = battery capacity at a discharge time of 20 hours, til 10.5V.

MASTERVOLT BATTERY TERMINALS & TERMINAL COVERS



Description	Part No.
Type A Battery Terminal Double plus flat	M68060500
Type A Battery Terminal Double minus flat	M68060600
Type B Battery Terminal with nut M8 plus	M68060100
Type B Battery Terminal with nut M8 minus	M68060200
Type C1 Battery Terminal plus flat	M68060300
Type C2 Battery Terminal minus flat	M68060400
Type D Battery Terminal with bolt M10 plus	M68060700
Type D Battery Terminal with bolt M10 minus	M68060800
Type D Battery Terminal with bolt M12 plus	M68060900
Type D Battery Terminal with bolt M12 minus	M68061000

Description	Part No.
Type A Cover, Red for part no. M68060500	M68451902
Type A Cover, Black for part no. M68060600	M68451914
Type B Cover, Red for part no. M68060100	M68456902
Type B Cover, Black for part no. M68060200	M68456914
Type C1 Cover, Red for part no. M68060300	M68454002
Type C2 Cover, Black for part no. M68060400	M68453014
Type D Cover, Red for part no. M68060700/M68060900	M68457302
Type D Cover, Black for part no. M68060800/M68061000	M68457314

For more terminals and covers see our Section 8 catalogue or visit our website:
www.aquafax.co.uk

DELIVERY
Unable to send via carrier. Please contact your local Aquafax sales depot for delivery methods.

MASTERVIEW PANELS

With MasterView panels you only require one panel, even for larger electrical systems, and can save time on making connections, interpreting data and finding the latest system information.

The MasterView System is the next step up from simpler options such as MasterView Read-out (for load status) and MasterView Easy (status of a limited number of products) in terms of practicality and ease of operation.

MASTERVIEW SYSTEM

Mastervolt's MasterView System brings an end to cluttered, unclear and excessive information. Based on their in-house developed software combined with a user-friendly 10.4-inch colour touchscreen, the MasterView System intelligently connects all the power sources and loads (generator, charger, bilge pump, engine, lighting, air conditioning, etc.) via the MasterBus. It provides all the information you need on your electric system in one clear overview on an organised, intuitively operated panel. The full colour graphical display helps installers to configure the electrical onboard system, and is extremely easy to reproduce. Configuration, monitoring and operation becomes easier, cheaper, lighter, faster & good looking. The software makes complicated electrical systems understandable for boat owners.

- Home screen - A status overview of power sources. Basic control is possible, for e.g turning on and off your inverter
- Digital switching screen - shows the layout of your boat, lights and selected pumps.
- System Overview - Overview of your electric system. Incorrect line voltages are shown in red, inactive circuits in grey.
- Tank Level Screen - Monitors the contents of up to 20 tanks. Warning signals can be installed
- Favourites Screen - Custom designed for e.g. one overview page, one or two breaker pages, an engine information page and a NMEA2000 information page.

Part No:.	M77010400
Display:	10.4 inch colour touch screen
Dimensions (H x W):	222 x 276 mm / 8.7 x 10.8 inch
MasterBus Connection:	by means of System Panel Controller (delivered as standard)
Power:	by means of System Panel Controller (delivered as standard)
Power Consumption:	28W
Protection Degree:	IP65 (front)
Weight:	1.4 kg / 3.1 lbs
Languages:	ENG, NL, DE, SP, IT, FRA, FIN, SWE, DEN, NOR

System Panel Controller

Delivered as standard with MasterView System available separately to order (see page 25 for details)

Part No. M77031900

MASTERVIEW EASY

This multifunctional display can monitor every MasterBus product. Connected to the Mastershunt it functions as a battery monitor, connected to the generator as a generator panel. These and other functions can also take place simultaneously and you can create a favourites page showing all your main information.

This touch screen panel offers excellent readability and easy operation. The grey button allows you to turn the display on and off or (un)lock the touch screen. Further operation is via the touch screen.
The first (of three) operation level shows a quick system overview - the information you need on a day-to-day basis. Product overview & configuration offers more detailed information and the option to change settings. As the MasterBus plug & play connection offers both data and power, only one cable is needed to connect the panel.

- Clearly lit display.
- Push button for on/off and blockade for unwanted operation.
- Touchscreen operation for all functions
- White background lighting - red colour for alarm function or night lights
- Buzzer and alarm function
- Installation requires only one MasterBus cable for both data and power supply
- Low consumption
- Easy to install, the panel can be flush and surface mounted

Part No:.	M77010305
Display:	3.5 inch touch screen
Dimensions (H x W):	110 x 110 mm / 4.3 x 4.3 inch
MasterBus Connection:	Yes
Power:	MasterBus
Power Consumption:	160mW
Protection Degree:	IP21
Weight:	230g / 0.51 lbs
Languages:	ENG, NL, DE, SP, IT, FRA, FIN, SWE, DEN, NOR

MASTERVIEW READ-OUT

Remote panel for reading the charge status of your battery charger, including error notifications.

Part No:.	M77010050
Display:	7 LEDs
Dimensions (H x W):	60 x 65 mm / 2.4 x 2 x 6 inch
MasterBus Connection:	Yes
Power:	MasterBus
Power Consumption:	144mW
Protection Degree:	IP21
Weight:	70g / 0.15 lbs

MASTERVIEW READ-OUT OEM

If your dashboard is full and does not offer space for a MasterView panel, this module allows you to integrate the MasterBus Read-out into your own control panel.

Part No. M77010030

PART NO.S IN RED = TO ORDER ONLY

MASTERBUS SYSTEM - COMPONENTS

THE EASE OF DIGITAL DISTRIBUTION

The advanced electric systems onboard superyachts are now within easy reach thanks to the MasterBus platform (single communication protocol with high-speed CANbus technology). The intelligent one-cable MasterBus requires only half the cables of a standard system, saving you both space and weight. You can automate your system to meet all your requirements.

Thanks to galvanic isolation, nearly all devices can supply power to the MasterBus, ensuring a safe and stable network. The wide range of interfaces and modules allows you to connect any equipment you wish to your MasterBus system and manage, monitor or operate it locally, centrally or even from your home address.

Professional Perspective

MasterBus also makes life easier for designers, builders and installers of power systems with less material, less work, less fuss and an easy testing method.
Moreover, it is available in ten languages and offers the same user interface for all (Mastervolt) products, such as battery chargers, inverters, generators, batteries or other devices. All control panels have an identical layout, with or without PC software. MasterBus makes your life easier.

MASTERSHUNT 500

This ultra-modern battery monitor provides detailed information on the status of your batteries, including voltage, current, remaining time and used capacity in percentages so no more unpleasant surprises.

With an intelligent connection system, the MasterShunt is easily connected to the DC Distribution. The integrated system clock combined with command-based events automates your system according to your needs. A good example of such system automation: The generator should start automatically when the batteries are almost depleted.

The MasterShunt also has a built-in robust main fuse that can safely break short-circuit currents of 50,000 Amps. Part No. M77020100

Part No.	M77020100
H x W x D:	150 x 150 x 65mm (5.9 x 5.9 x 2.5")
Weight:	1kg (2.2lbs)
Battery Types:	gel, AGM, wet, Lithium Ion, spiral
Battery Voltage:	12, 24, or 48V DC
Current:	300A continuous / 500A for 5 minutes
MasterBus Powering:	Yes
Main Fuse:	500 A T-Fuse (300A continuous at 40ºC)
System Functionality:	Alarms, timers, auto start/stop for generator
Programmable alarms:	Warning low voltage, warning low state of charge, high voltage
Protection degree:	IP21
Delivered with:	MasterShunt, temperature sensor, MasterBus Terminator, MasterBus cable, cable protections for DC connections

DC DISTRIBUTION 500

The DC Distribution 500 is the smallest distribution model available. It connects up to four DC devices to the DC groups, such as a battery charger, inverter, alternators and solar panels. With the included plug & play cable it can be easily connected to the MasterBus network. The MasterView panel gives all fuses logical names, for instance, referring to the connected equipment, to ensure you receive understandable error notifications (for example: battery charger fuse defect).

Part No. M77020200

Part No.	M77020200
H x W x D:	150 x 216 x 65mm (5.9 x 7.9 x 2.5")
Weight:	1.2kg (2.6lbs)
Battery Voltage:	12, 24, or 48V DC
Current:	300A continuous / 500A for 5 minutes
Standard Fuses:	80, 80, 125, 160A - ANL type (see ANL fuses in Section 8, page 22)
Spare Fuse:	125A ANL type
Alarms:	Fuse monitoring
Protection degree:	IP21
Delivered with:	5 fuses, hex tool, MasterBus Terminator, MasterBus cable, cable protections for DC connections

DIGITAL DC 10x10A

As the pinnacle of system intelligence, the Mastervolt Digital DC 10x10A has ten 10A outputs for all functions including lighting, pumps or electronics.
It comes standard with intelligent alarm functions and luxury options include:

- Follow me home (light stays on for a specific time after you leave the vessel).
- (Delayed) dimming of lights (including ten built-in dimmers).
- Alarm signal for overload.
- Every output has a hardware and software fuse.
- Reset the fuses via the MasterBus network.
- Possibility of higher currents (up to 100 A) with parallel switching of multiple outputs.

Part No. M77020400

NEW

Part No.	M77020400
MasterBus Powering:	Yes
Power consumption:	<2 mA at 12V / <2 mA at 24V (off board situation)
Protection degree:	IP21
Weight:	750 gr / 1.7 lbs
DC Output	
Connection:	cable max. 4 mm²
Max software fuse current:	10A per channel
Hardware fuse current:	15A per channel
DC Input	
Connections:	Max. 95 mm² or directly connected to MasterShunt or DC Distribution
Maximum current:	100 A
Supply voltage:	8-30 V DC

MASTERBUS SYSTEM - INTERFACES

The special MasterBus Interfaces increase the versatility of your MasterBus network. Connect multiple components to distribute information to your MasterBus products or connect products that require information from the MasterBus network, such as a NMEA2000 or Modbus network, and vice versa.

All interfaces (and modules) can be installed in various ways, from DIN rails to surface mounting. Available in ten languages: English, Dutch, German, French, Spanish, Italian, Norwegian, Swedish, Finnish and Danish.

MASTERBUS USB INTERFACE

Allows you to read and configure your MasterBus system on your PC.

Part No. M77030100

Part No.	M77030100
MasterBus powering:	Yes (when the PC is switched on)
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	USB connection cable, MasterBus cable, MasterBus Terminator, user's manual

MASTERBUS MODBUS INTERFACE

The MasterBus Modbus Interface can provide all information from the 'closed' MasterBus network for other monitoring and operating systems by means of the Modbus protocol.

Part No. M77030800 NEW

Part No.	M77030800 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	MasterBus cable, MasterBus Terminator, user's manual

MASTERBUS INVERTER INTERFACE

The MasterBus Inverter Interface integrates the Mastervolt Mass Sine inverter in a MasterBus network and allows it to be operated and monitored via MasterView or PC.

Part No. M77030700 NEW

Part No.	M77030700
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	Interface connection cable, MasterBus cable, MasterBus Terminator, user's manual

MASTERBUS COMBI INTERFACE

This interface integrates a Mastervolt Mass Combi in a MasterBus network and allows it to be operated or monitored via a MasterView panel or PC.

Part No. M77030475 NEW

Part No.	M77030475
MasterBus powering:	Yes
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	Interface connection cable, MasterBus cable, MasterBus Terminator, user's manual

MASTERBUS SERIAL INTERFACE

The MasterBus Serial Interface connects conventional Mastervolt products to the MasterBus. Data becomes permanently available to allow configuration, operation and monitoring via MasterView panels.

Part No. M77030450 NEW

Part No.	M77030450
Suitable for:	BTM-III, Mac DC-DC converters and Magic DC-DC Converters
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	Interface connection cable, MasterBus cable, MasterBus Terminator, user's manual

MASTERBUS NMEA2000 INTERFACE

The MasterBus NMEA2000 Interface provides the MasterBus network with NMEA2000 information, and vice versa.

Part No. M77031800 NEW

Part No.	M77031800 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 100g / 0.22 lbs
Protection degree:	IP21
Delivered with:	NMEA connection cable, MasterBus cable, MasterBus Terminator, user's manual

Part No.s in Red = To Order Only

MASTERBUS SYSTEM - INTERFACES

The special MasterBus Interfaces increase the versatility of your MasterBus network. Connect multiple components to distribute information to your MasterBus products or connect products that require information from the MasterBus network, such as a NMEA2000 or Modbus network, and vice versa.

All interfaces (and modules) can be installed in various ways, from DIN rails to surface mounting. Available in ten languages: English, Dutch, German, French, Spanish, Italian, Norwegian, Swedish, Finnish and Danish.

MASTERBUS TANK LEVEL INTERFACE

This interface converts analogue sensor input signals to MasterBus data.
Selectable input signals: 4-20 mA, 0-300 Ω, 8-70 V DC.

Part No. M77030300

NEW

Part No.	M77030300 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	MasterBus cable, MasterBus Terminator, user's manual

BATTERY CONTACTOR INTERFACE

This interface allows MasterBus to control latching relays. Saves batteries as a current is only drawn during switching.

Part No. M77031700

NEW

Part No.	M77031700 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 100g / 0.22 lbs
Protection degree:	IP21
Delivered with:	Cable with plug, MasterBus cable, MasterBus Terminator, user's manual

MASTERBUS REPEATER

Double the maximum length of your MasterBus network.

Part No. M77031100

NEW

Part No.	M77031100 - TO ORDER ONLY
MasterBus powering:	Yes
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 90g / 0.20 lbs
Protection degree:	IP21
Delivered with:	MasterBus cable, MasterBus Terminator, user's manual

AC POWER ANALYSER

The AC power analyser is a multifunctional measuring device which can visualize the AC current and AC voltage, frequency, Cos Phi and the power of the system. On top of that it features the "inverter control" and a free programmable "potential free contact".

Part No. M77031200

NEW

Part No.	M77031200 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	80 x 181 x 28 mm / 3.1 x 7.1 x 1.1 inch
Weight:	± 530g / 1.2 lbs
Protection degree:	IP65
Delivered with:	MasterBus cable, MasterBus Terminator, current transformer 100:5, user's manual

SYSTEM PANEL CONTROLLER

Connect the MasterView System or your PC with the MasterBus network. Provides the power and software license key for the MasterView System panel.

Part No. M77031900

NEW

Part No.	M77031900 - TO ORDER ONLY
MasterBus powering:	Yes (when the PC is switched on)
Dimensions H x W x D:	91 x 185 x 33 mm / 3.6 x 7.3 x 1.3 inch
Weight:	± 750g / 1.65 lbs
Protection degree:	IP65
Delivered with:	USB cable, SPC cable, MasterBus cable, MasterBus Terminator, user's manual

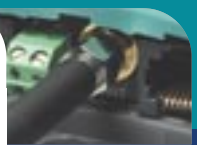
MASTERBUS INSTALLATION CABLE

Suitable for data traffic and powering peripheral equipment, this is the only cable you need for your MasterBus network.
MasterBus compatible products come standard with two ports, while other equipment requires an interface. A DIY kit is optional.

TERMINATOR
Part No. M77040000

Length	Part No.
0.2m	M77040020
0.5m	M77040050
1m	M77040100
3m	M77040300
6m	M77040600
10m	M77041000
15m	M77041500
20m	M77042000
25m	M77042500

For more electrical products see our Section 8 catalogue.



MASTERBUS SYSTEM - INTERFACES

The special MasterBus Interfaces increase the versatility of your MasterBus network. Connect multiple components to distribute information to your MasterBus products or connect products that require information from the MasterBus network, such as a NMEA2000 or Modbus network, and vice versa.

All interfaces (and modules) can be installed in various ways, from DIN rails to surface mounting. Available in ten languages: English, Dutch, German, French, Spanish, Italian, Norwegian, Swedish, Finnish and Danish.

GPRS MODULE

The GPRS module communicates with your vessel via mobile phone, allowing you to monitor current information or operate the system by remote control via a text message or easy shortcuts. Alarm notifications per text message are optional.

Part No. M77031000

NEW

Part No.	M77031000 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	GPRS antenna, MasterBus cable, MasterBus Terminator, user's manual; SIM card not included

SWITCH INPUT 3 PCB

The Switch Input 3 makes watertight Carling switches compatible with MasterBus.
Multiple functions can be easily linked with this module.

Part No. M77031300

NEW

Part No.	M77031300 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	54 x 86 x 58 mm / 2 x 3.4 x 2.3 inch (including mounting frame)
Distance between switches:	26.1mm
Weight:	35g / 0.08 lbs (incl. MasterBus Terminator)
Protection degree:	IP21
Delivered with:	MasterBus Terminator, user's manual; switches & mounting frame not included

SWITCH INPUT 4 PCB

Provides LED indications for additional information, such as when a light stops working.

Part No. M77031400

NEW

Part No.	M77031400 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	56 x 120 x 65 mm / 2.2 x 4.7 x 2.6 inch (including mounting frame)
Distance between switches:	27.3mm
Weight:	45g / 0.1 lbs (incl. MasterBus Terminator)
Protection degree:	IP21
Delivered with:	MasterBus Terminator, user's manual; switches & mounting frame not included

DIGITAL INPUT

Connect up to four switches to the MasterBus network.
Delivery includes cables.

Part No. M77030900

NEW

Part No.	M77030900 - TO ORDER ONLY
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	Cable with plug, MasterBus cable, MasterBus Terminator, user's manual

DIGITAL AC 1 x 6A

The Digital AC 1 x 6A switches all AC loads up to 6A directly and higher loads via a relay, anywhere on board.

Part No. M77031500

NEW

Part No.s in Red = To Order Only

Part No.	M77031500 - TO ORDER ONLY
Max. Relay Current:	6A (230V AC single pole)
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	MasterBus cable, MasterBus Terminator, user's manual

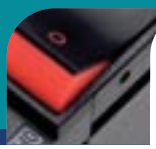
MULTIPURPOSE CONTACT OUTPUT

This programmable free switch contact provides your MasterBus network with unprecedented options, such as controlling a ventilator in the engine room or operating a generator from a different brand.

Part No. M77030500

Part No.	M77030500
Potential free contact	NO-C-NC - 1A / 30V DC
MasterBus powering:	No
Dimensions H x W x D:	66 x 78 x 32 mm / 2.6 x 3.1 x 1.3 inch
Weight:	± 80g / 0.18 lbs
Protection degree:	IP21
Delivered with:	MasterBus cable, MasterBus Terminator, user's manual

FOR FUNCTION SWITCHES & LEGENDS SEE PAGES 29 -30



Masterlink Battery Monitor & Circuit Breaker Switches

BATTERY MONITOR

MASTERLINK BTM-III

MASTERLINK BTM-III BATTERY MONITOR

The Masterlink BTM-III battery monitor provides an accurate indication of the current, amperage, remaining time and remaining capacity of battery bank 1, and the current and estimated capacity of battery banks 2 and 3. The built-in microprocessor calculates the remaining capacity and stores historic data.

Part No. M70403163

COVER BOX FOR MASTERLINK REMOTE PANELS

(if supplied individually)

Part No. M70904610
TO ORDER ONLY.

Specifications:	
Number of battery sets:	Service (fully), starter & bowthruster
Max. Amp-hour capacity:	9999 Ah
Voltage read-out:	Yes
Current read-out:	Yes
Amp-hours read-out:	Yes
Time remaining indication:	Yes
Battery capacity in %:	Yes
Current consumption (backlight off):	14mA / 12V - 11 mA / 24V
Current consumption (backlight on):	100mA / 12V - 50 mA / 24V
Supply voltage:	9-35V DC
Voltage range measurement:	7-35V DC
Voltage resolution:	0.01V
Voltage deviation:	± 0.6% ± 1 figure
Amps measurement range:	0-500A (optional 1000 A/50 mV)
Shunt specification:	500A / 50mV (service set)
Dimensions instrument (W x H):	120 x 65mm / 4.7 x 2.6 inch
Built-in depth incl./excl. cover box:	55/40mm - 2.2/1.6 inch
Weight instrument incl. shunt:	0.9kg (2lbs)
Dimensions shunt (H x W x D):	84x44x44mm (3.3x1.7x1.7 inch - M8)

For the digital battery monitor of the future, see page 23 - MasterShunt.

CIRCUIT BREAKER SWITCHES

Mastervolt supplies a wide variety of single pole and double pole circuit breakers, they secure the electrical circuit against overload or short-circuits. For equipment that is connected directly to the circuit breakers - such as lighting - they can also act as on/off switches. Double pole breakers are mostly used for 230V systems, which interrupt the current both in the phase and neutral wires. Mastervolt breakers satisfy all the requirements of CE/UL/CSA and ABYC.

The MD1 series is available for 1 to 25A for DC circuits. Single Pole only

MD1

Amps	Part No.
1A	M70905201
2.5A	M70905202
5A	M70905205
7.5A	M70905207
10A	M70905210
15A	M70905215
20A	M70905220
25A	M70905225

AD1

Amps	Part No.
1A	M70905001
2.5A	M70905002
5A	M70905005
7.5A	M70905007
10A	M70905010
15A	M70905015
20A	M70905020
25A	M70905025
30A	M70905030
35A	M70905035
40A	M70905040
50A	M70905050

The AD1 and AD2 series are available from 1A to 50A for both AC and DC, single and double pole.

AD2

Amps	Part No.
5A	M70905105
10A	M70905110
15A	M70905115
20A	M70905120
30A	M70905130
40A	M70905140
50A	M70905150

The CD1 series is available from 60A to 100A for both AC and DC, single pole.

CD1

Amps	Part No.
60A	M70905260
70A	M70905270
80A	M70905280
90A	M70905290
100A	M70905299

Circuit Breaker with finger guard
(avoids accidental contact), single pole.

Description	Part No.
10A AD1 single pole breaker	M70905091
190A CD1 single pole breaker	M70905301

PART NO.S IN RED = TO ORDER ONLY

MASTERVISION SYSTEM

MASTERVISION ALUMINIUM MODULE FRAME SYSTEM

If you want the convenience of an electrical panel controlling all functions on-board, a MasterVision modular switchboard is the solution.
The Mastervision concept is like a DIY kit, where you bring together pieces of a jigsaw in a way that suits you best. Start by mapping all the necessary on-board functions and the corresponding MasterVision Panels. These can then be combined into one or more panels using the modular frame as a basic structure.

Mounting set/screws for frame mounting
Part No. M70904855

Set of five connector blocks to connect the aluminium extrusions 480mm (18.9")
Part No. M70907820

Frame Type	Size	Part No.
Upper/Lower	360mm (14.2")	M70904812
Middle	240mm (9.5")	M70904820
Middle	360mm (14.2")	M70904822
Side	650mm (25.6")	M70904834

Upper/Lower frames

Connector blocks

CONNECTION BAR (X2)

To connect 3 panels 145x20 mm
Part No. M70907810

BUSBAR (X2)

To connect 5 single pole AD and MD circuit breakers
Part No. M70907830

BUSBAR (X2)

To connect 2 single pole AD and MD circuit breakers
Part No. M70907840

BUSBAR (X2)

To connect 6 double pole AD and MD circuit breakers
Part No. M70907850

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English 1 P/No. M70907910
English 2 P/No. M70907911

MASTERVOLT PANELS

COMBINED REMOTE MONITORING PANEL

with shore/ inverter/ generator power indication.
To be used with Systemswitch.
AC readout Volt/Amp/Hz, AC Load 0-100%.
Suitable for all generators.
Part No. M70400015

Model:	System Manager/AC
(W x H):	120 x 195mm (4.7 x 7.7")
Material:	Aluminium

POWER SYSTEM CONTROL PANEL (PSCP)

PSCP without generator start/stop.
With battery condition meter, but no whisper generator control function.
Use in combination with Systemswitch.
Part No. M70400030

Model:	C-0-SC-3
(W x H):	240 x 195mm (9.4 x 7.7")
Material:	4mm Aluminium

PSCP with whisper control (pictured).
Simple installation with appropriate parts: Systemswitch and DC distribution kit.
Use in combination with Systemswitch.
Part No. M70400040

Model:	Model C-0-SC-4
(W x H):	240 x 195mm (9.4 x 7.7")
Material:	4mm Aluminium

REMOTE MONITORING

for Mass battery charger, with GMDSS system monitoring functions. Compatible with MasterVision. Part No. M70400050

Model:	GMDSS
(W x H):	180 x 65mm (7.1 x 2.6")
Material:	Aluminium

REMOTE MONITOR

for Mass & Chargemaster battery chargers, with a regulator for reducing shore power consumption.
Part No. M70403040

Model:	C-3-RS
(W x H):	120 x 65mm (4.7 x 2.6")
Material:	Aluminium

BILGE PUMP OPERATION AND ALARM

For 12/24V
Part No. M70403020

Model:	C-3-BC
(W x H):	120 x 65mm (4.7 x 2.6")
Material:	Aluminium

SINGLE POLE DISTRIBUTION PANEL

Suitable for 2 circuit breakers
Part No. M70303020

Type:	AD1 (DC)
(W x H):	120 x 65mm (4.7 x 2.6")
Material:	Aluminium

MONITORING PANEL

for Mass & Chargemaster battery chargers
Part No. M70404100

Model:	C-4-RB
(W x H):	60 x 65mm (2.4 x 2.6")
Material:	Aluminium

MANY OTHER PANELS AVAILABLE - CONTACT AQUAFAX FOR DETAILS.

SWITCHES FOR IN AND OUTDOOR USE

WATERPROOF FUNCTION SWITCHES

Mastervolt offers a wide choice of stylish waterproof operation buttons and switches featuring descriptive symbols and are suitable for both indoor and outdoor installation. The switches are tested for frequent use at -40ºC to 85ºC and designed to last more than 150,000 cycles. LED lamps are used to brighten the on/off indication and the basic frame guarantees simple assembly and installation.

OPERATION BUTTON

This weather-resistant operation button made of polycarbonate composite can be easily clicked on the base switch. A key for removing the button again is also available (see below).
There are 64 symbols available (see next page).

Operation Button | Switch Module | Installation Frame | Electrical Connection

SWITCH MODULE

Fully waterproof switch (IP66) for outdoor and indoor installation. Available in single or double pole versions and various configurations. An LED illuminates the function symbol of the operation button.

Part No.	Description
M70906405	On/Off 1p no LED
M70906410	On/Off 1p
M70906415	On/(Off) 1p
M70906420	On/Off 2p
M70906430	(On)/Off 1p
M70906440	(On)/Off 2p
M70906450	On/On 1p
M70906460	On/On 2p
M70906470	On/Off/On 1p
M70906480	On/Off/On 2p
M70906485	On/Off/(On) 1p
M70906490	On/Off/(On) 2p
M70906495	(On)/Off/(On) 1p
M70906500	(On)/Off/(On) 2p
M70906425	Off/On/On 2p (wipes)

( ) denote momentary connection only

ELECTRICAL CONNECTION

Connection block (VCH) for insulating and securing the connections.

Part No. M70906320

ACTUATOR REMOVER TOOL

Convenient key tool for demounting the operation button

Part No. M70906310

INSTALLATION FRAME

The switch is inserted into a weather-resistant installation sheath. Mount into the existing dashboard using sealant or glue or within the accompanying ready-made installation frame. Available as single, three way, six way and click-in modular pieces.

VMS | VM3 | VME | VMM

VM6 | VHP

This range of handy fixing frames relies on a simple click-in modular concept, allowing different components to be connected to each other. You can link as many frames as you wish but remember to use two end segments.

Model	Description	Dimensions	Part No.
VMS	frame for one switch	34 x 59mm (1.3 x 2.3")	M70906301
VME	End piece*	-	M70906302
VMM	frame middle piece*	-	M70906303
VM3	frame for 3 switches	87 x 59mm (3.4 x 2.3")	M70906304
VM6	frame for 6 switches	166 x 59mm (6.5 x 2.3")	M70906305
VHP	Blank Plug	-	M70906330

* for built-in switches

EMPTY PANELS FOR FUNCTION SWITCHES

These photos illustrate how the panel could be composed with two and four waterproof switches

Model:	(W x H):	Description	Material:	Part No.:	
S-4-F2	60 x 65mm (2.4 x 2.6")	For 2 switches	Aluminium	M70604040	MasterVision compatible
S-3-F4	120 x 65mm (4.7 x 2.6")	For 4 switches	Aluminium	M70803040	

OPERATION CONTROL BUTTON WITH LEGENDS

Blank Part No. M70906600	No Light Part No. M70906601	Horn Part No. M70906602	Running Lights Part No. M70906603	Main Light Switch Part No. M70906604	Ventilation Fan Part No. M70906605
Windshield Wiper Part No. M70906606	Bilgepump Auto/hand Part No. M70906607	Anchor Light Part No. M70906608	Master-switch Part No. M70906609	Running/ Anchor Light Part No. M70906610	Search Light Part No. M70906611
Check Part No. M70906612	Light Part No. M70906613	Trimming Operation Part No. M70906614	Anchor Part No. M70906615	Speaker Part No. M70906617	Cylinder Speed Part No. M70906618
Bilge Blower Part No. M70906619	Windshield Washer Part No. M70906621	Freshwater Pump Part No. M70906622	Warm Air Blower Part No. M70906623	Fuel Part No. M70906624	Slow Part No. M70906625
Bilge Pump 1 Part No. M70906626	Bilge Pump 2 Part No. M70906627	Bilge Pump 3 Part No. M70906628	Fast Part No. M70906629	Engine Lights Part No. M70906632	Work Lights Part No. M70906635
Water Flushing Tap Part No. M70906644	High Beam Part No. M70906645	Dipped Beam Part No. M70906646	Side Marker Light Part No. M70906647	Interior Light Part No. M70906648	Work Light Part No. M70906616
Work Light Part No. M70906649	Rotary Beacon Part No. M70906651	Air Conditioning Part No. M70906658	Rear Demister Part No. M70906659	Driver Seat Light Part No. M70906667	Side Marker Lamps Part No. M70906668
Fog Lamp Part No. M70906669	Windscreen Heating Part No. M70906676	Direction Indicator Part No. M70906685	Water Pump Part No. M70906689	Mute Part No. M70906696	Rear Fog Lamp Part No. M70906699
Warning Electrical Cables Part No. M70906700	Depth Sounder Part No. M70906706	Anchor Winch Part No. M70906707	Rear Windshield Wiper Part No. M70906708		

SWITCHBOARD WITH FUSES

Circuit distribution switch panel for equipment powered by 12 or 24V, such as navigation lighting.
6 x 15A thermal fuses with separate switches and on/off indicator light.
You can make text labels yourself via an application at www.mastervolt.com/mastervision.
Not compatible with standard MasterVision modules.

Model: Junior Part No. M75001000

ADDITIONAL CONTROL BUTTONS WITH LEGENDS AVAILABLE - PLEASE CONTACT AQUAFAX SALES DEPT.

ALTERNATORS & REGULATORS

ALPHA ALTERNATORS

The main engine alternator is designed to charge the starter battery. As a result the combination is not ideal for fast & full charging of other batteries such as the service or bowthruster battery. Especially for chargeing batteries over a short time or when a little more power is required.

There are two options to solve this issue:

Equip the standard alternator with an Alpha Pro charge regulator, ensuring that the existing alternator works in accordance with the 3-step charge technology instead of it's standard 1-step method, and that the batteries are charged faster within a shorter period.

Or use a powerful second Alpha alternator with Alpha Pro charge regulator. This is specifically designed for charging service batteries, and allows you to charge quickly and turn off your engine when you moor.

- Fast & complete charging of starter/service/bowthruster batteries.
- Power supply for all consumers.
- 12V and 24V versions.
- 75 A to 150 A charge current.
- Standard delivered with Alpha Pro charge regulator for optimal performance & longer-lasting batteries.

M48012090 M48012130 M48024075 M46020950 M48024110 M48024150

Part No.	M48012090	M48012130	M48024075	M46020950	M48024110	M48024150
Model:	12/90	12/130*	24/75*	24/95C	24/110	24/150
Type Cabinet:	A	B	B	D	B	C
Charge Current:	90A	130A	75A	95A	110A	150A
Alpha Pro Charge Regulator:	Standard	Standard	Standard	Standard	Standard	Standard
Charge Voltage Absorption:	14.25V	14.25V	28.5V	28.5V	28.5V	28.5V
Charge Voltage Float:	13.25V	13.25V	26.5V	26.5V	26.5V	26.5V
Cable Length Regulator/Alternator:	---------- 1.5m (5ft) oil resistant marine connection cable - delivered as standard ----------					
Pulley (double) diameter:	73mm (2.9")	88mm (3.5")	88mm (3.5")	76.4mm (3")	88mm (3.5")	92mm (3.6")
Belt section:	2xA	2xA	2xA	2xA	2xA	2xA
Isolated from Mass:	Yes	Yes	Yes	Yes	Yes	Yes
Direction of Revolutions:	2	2	2	1 (clockwise)	2	2
Weight:	5.5kg (12.1lbs)	10.1kg (22.2lbs)	10.1kg (22.2lbs)	7.9kg (17.4lbs)	10.1kg (22.2lbs)	13.1kg (28.9lbs)
Dimensions:	---------- see www.mastervolt.com/alternators for the drawings ----------					
Mounting:	five to six, six o'clock and five past six	six o'clock	six o'clock	five past six	six o'clock	five to six, six o'clock and five past six
Charge Regulation:	---------- The Alpha Pro Charge Regulator is standard with all models, see table below ----------					

* Available with multi-belt pulley (12/130 model = Part no. M48012131)

ALPHA PRO CHARGE REGULATORS

The Alpha Pro charge regulator is equipped with a microprocessor for Mastervolt's 3-step charging method and fastening connections for the included cable to the alternator. Also included is a telejack plug for the temperature sensor that is to be connected to the largest and warmest battery. The charge regulator has a functional, waterproof design (IP65) and features electronics housed inside synthetic material. The charge voltage is automatically adjusted if there is any risk of gas formation. Electronics permanently regulate the voltage, ensuring that the battery is always kept in good condition.

TWO DIFFERENT ALPHA MODELS

- Alpha alternator kit with connection cable.
- B-model for Bosch alternators, delivered with plug & play connection

Part No.	M45511000	M45511200	M45511400	M45511600
Model:	Alpha Pro 12V	Alpha Pro 24V	Alpha Pro B 12V	Alpha Pro B 24V
Charge Voltage- bulk/absorption*:	14.25V	28.5V	14.25V	28.5V
Charge Voltage-float*:	13.25V	26.5V	13.25V	26.5V
Adjustability Bulk:	13-15V	27-31V	13-15V	27-31V
Adjustability Float:	13-13.9V	26-28.8V	13-13.9V	26-28.8V
Temperature Compensation:	-30mV / °C	-60mV / °C	-30mV / °C	-60mV / °C
Absorption Time:	---------- 4 hours, adjustable from 2 minutes to 4.5 hours ----------			
Cable Length regulator/alternator:	---------- 1.5m (5ft), oil resistant maritime connections cable as standard ----------			
Connections plug regulator/alternator:	Alpha/Mastervolt	Alpha/Mastervolt	Alpha/Bosch	Alpha/Bosch
Cable Length Temperature Sensor:	6m (20ft)	6m (20ft)	6m (20ft)	6m (20ft)
Protection Degree:	IP65	IP65	IP65	IP65
Dimensions (H x W x D) in mm:	90 x 95 x 30	90 x 95 x 30	90 x 95 x 30	90 x 95 x 30
Dimensions (H x W x D) in inches:	3.5 x 3.7 x 1.2	3.5 x 3.7 x 1.2	3.5 x 3.7 x 1.2	3.5 x 3.7 x 1.2
Weight:	0.4kg (0.9lbs)	0.4kg (0.9lbs)	0.4kg (0.9lbs)	0.4kg (0.9lbs)
Suitable for alternator type:	Various	Various	Bosch	Bosch

*Voltage at 25°C (with connected temperature sensor 14.4 / 28.8V at 20°C). Soon to be available with Masterbus.

Part No.s in red = To Order Only

AC TRANSFER SYSTEMS

MASTERVOLT TRANSFER SYSTEMS: REGULATES 230V POWER SOURCES

The Mastervolt transfer system helps you regulate your shore, generator or inverter power and automatically selects the right power sources at the right time. With Mastervolt you can cook and do laundry at the same time or watch TV with the airco on full blast. In addition, Mastervolt transfer systems are suitable for every installation. Mastervolt makes onboard 230 V a breeze.

The Mastervolt Transfer System Controls the Following:

- Switching on and selecting 230 V sources: Shore power, inverter and generator (adjustable to amperage of shore power, for instance 6A)
- Stable transfer to connected groups
- Prevents damaging contact between the inverter and other 230V sources
- Fully compatible with Mastervolt systems, and suitable for installations from other brands, other generators and/or inverters

Part No.		M55006010	M55006015	M55003500
INPUT	Model:	Masterswitch 5kW	Masterswitch 10kW	Masterswitch 25kW
Nominal Input Voltage:		230V (50/60Hz)	230V (50/60Hz)	230V (50/60Hz)
Input Voltage Range:		200-250V AC	200-250V AC	200-250V AC
No. of Inputs:		2	2	2
No. of Outputs:		1	1	1
Dimensions (H x W x D) in mm:		200 x 110 x 115	200 x 110 x 115	291 x 241 x 168
Dimensions (H x W x D) in inches:		7.9 x 4.3 x 4.5	7.9 x 4.3 x 4.5	11.5 x 9.5 x 6.6
Weight:		1.2kg (2.6lbs)	1.3kg (2.9lbs)	3.8kg (8.4lbs)
VERSION				
With Automatic Circuit Breakers:		No	No	No
Connection for Remote Control:		No	No	No
MasterBus Compatible:		No	No	No
LED indication on Cabinet:		No	No	No
Nominal Input Current Generator:		20A	40A	125A
Nominal Input Current Shore:		20A	40A	125A
Nominal Input Current Inverter:		n/a	n/a	n/a
Earth Leakage Switch:		n/a	n/a	n/a
Generator Input Switch:		No	No	No
Time Delay Generator Input:		0-10 sec (adjustable)	0-10 sec (adjustable)	0-10 sec (adjustable)
OUTPUT				
Nominal Current Shortbreak Output:		n/a	n/a	n/a
Nominal Current Power Output:		20A	40A	125A
Nominal Current Generator Output:		n/a	n/a	n/a
Automatic Circuit Breakers:		no, system dependent	no, system dependent	no, system dependent
TECHNICAL SPECIFICATIONS				
Power Consumption (AC all inputs):		7 VA	7 VA	26 VA
Power Consumption (only inverter power):		no no-load consumption	no no-load consumption	no no-load consumption
Temperature range (specified):		-5°C to 60°C	-5°C to 60°C	-5°C to 60°C
Temperature range (allowed):		---------- -25°C to 70°C (may not meet the specified tolerances) ----------		
Temperature range (storage/non operating):		-60°C to 80°C	-60°C to 80°C	-60°C to +80°C
Relative Humidity:		---------- maximum 95%, non condensing ----------		
Transfer Time:		---------- switch on 12-22ms / switch off 4-19ms ----------		
Frequency Watch:		No	No	No
MECHANICAL				
Cable Size:		0.5 - 10mm^2 / AWG 20-7	0.5 - 10mm^2 / AWG 20-7	4-50mm^2 / AWG 10-1/0
Protection Degree:		IP55	IP55	IP55

* Also available in 9 kW: Part No. M55106200. Specifications identical to 7 kW, except current is 80 A.

AC TRANSFER SYSTEMS

Masterswitch: The Simple but Effective Solution

- Two AC inputs: inverter, shore power or generator.
- A single outlet to the AC power group
- Automatic switching
- Selectable time delay for generator stability
- Power transfer up to 25 kW, input / output from 20 to 125 Amps
- Can be combined with circuit breakers (Masterswitch Fuses)
- Functional casing.

Systemswitch: The Complete System Solution

- Three 230 V inputs: inverter, shore power and generator.
- Three or four outlets to 230 V power groups.
- Automatic switching.
- Power conduction from 4.5 kW to 16kW, input/output from 25 to 63 A.
- Information source for central energy management via the MasterBus network
- Optional automatic fuses; for larger systems this usually requires an extra casing
- Luxury C-casing or installation casing (System Manager model)
- MasterBus compatible

M55006060	M55008005	M55008105	M55008205
Masterswitch Fuses 5kW	Mass Systemswitch 6kW	Mass Systemswitch 10kW	Mass Systemswitch 16kW
230V (50/60Hz)	230V (50/60Hz)	230V (50/60Hz)	230V (50/60Hz)
200-250V AC	200-250V AC	200-250V AC	200-250V AC
2	3	3	3
2	3	4	4
200 x 255 x 115	340 x 261 x 144	340 x 261 x 144	340 x 261 x 144
7.9 x 10 x 4.5	13.4 x 10.3 x 5.7	13.4 x 10.3 x 5.7	13.4 x 10.3 x 5.7
2.1kg (4.6lbs)	4.4kg (9.7lbs)	4.9kg (10.8lbs)	5kg (11lbs)
No	No	No	No
No	Yes	Yes	Yes
No	Yes	Yes	Yes
No	---------- Indication voltage sources present and 'load on inverter' mode ----------		
16A	25A	40A	63A
16A	25A	25A	40A
20A	25A	25A	25A
Yes (1x)	No	No	No
No	---------- Continuous monitoring of voltage and frequency ----------		
0-10 sec (adjustable)	0-10 sec (adjustable)	0-10 sec (adjustable)	0-10 sec (adjustable)
6A + 6A + 6A	25A	25A	25A
6A + 10A	25A	25A	40A
n/a	n/a	40A	63A
Yes	No, system dependent	No, system dependent	No, system dependent
7 VA	27 VA	33 VA	33VA
no no-load consumption	<1 VA	<1 VA	<1 VA
-5°C to 60°C	-5°C to 60°C	-5°C to 60°C	-5°C to 60°C
---------- -25°C to 70°C (may not meet the specified tolerances) ----------			
-60°C to 80°C	-60°C to 80°C	-60°C to 80°C	-60°C to 80°C
---------- maximum 95%, non condensing ----------			
---------- switch on 12-22ms / switch off 4-19ms ----------			
No	Yes	Yes	Yes
0.5 - 10mm² / AWG 20-7	---------- 0.5 - 10mm² / AWG 20-7, remote control: 0.14-2.5mm² / AWG 26-13 ----------		
IP55	IP23	IP23	IP23

Part No.s in red = To Order Only

ISOLATION TRANSFORMERS

MASTERVOLT ISOLATION TRANSFORMERS

You need to be careful when introducing shore power onboard, especially when the yacht is made of aluminium or steel. An incorrectly configured system can result in electrolysis, which will slowly but surely corrode the metal components. It is also important to protect the engine, rudder, rudderstock, propeller and thruster on composite yachts. A Mastervolt isolation transformer will help preserve your valuable boat and provide you with the security of a correctly earthed 230V system.

Lightweight Mass GI Transformer

- Ultramodern high-frequency electronic switch technology
- Lightweight and compact
- Integrated Soft Start function
- Connect to currents from 90 to 255 V and from 45 to 65 Hz
- Units can be parallel coupled for higher capacity
- Higher efficiency, limited heat development

Part No.	M88000355	M88000705	M86050351
Model:	Mass GI 3.5	Mass GI 7	IVET-D 16A 3.5kVA Multi Tap
INPUT			
Input Voltage:	90-255V	90-255V	220-240V (110-120V adjustable)
Input Frequency:	45-65 Hz	45-65 Hz	45-65 Hz
Nominal Input Current @ 230V	16A	32A	16A
No Load Consumption:	22W	44W	<10W
Earth Leakage Protection:	No	No	No
OUTPUT			
Output Voltage (equal to input):	90-255V, ± 5%	90-255V, ± 5%	220-240V, ± 5% (110-120V adjustable)
Output Frequency (equal to input):	45-65Hz	45-65Hz	45-65Hz
Soft Start:	Yes	Yes	Yes
Switch Off Behaviour Breaker:	B-characteristic	B-characteristic	B-characteristic
Efficiency:	>93%	>93%	>93%
GENERAL			
Power:	3500W*	7000W	3500W
Technology:	High Frequency	High Frequency	Torroidal
Dimensions (H x W x D) in mm:	340 x 261 x 144	340 x 261 x 250	407 x 295 x 220
Dimensions (H x W x D) in inches:	13.4 x 10.3 x 5.7	13.4 x 10.3 x 9.8	16 x 11.6 x 8.7
Weight:	6kg (13.2lbs)	10kg (22lbs)	23kg (50.7lbs)
Ambient Temperature:	---------- 0 to 40°C, derating with 5% per °C (40-60°C) ----------		
Switch off at:	80°C	80°C	120°C
Cooling:	Variofan	Variofan	Natural cooling, forced cooling >80°C
Operating Humidity:	max 95%	max 95%	max 95%
Protection Degree:	IP23	IP23	IP23
MasterBus Compatible:	Yes	Yes	No
Optional Remote Control:	Yes, MasterView Easy	Yes, MasterView Easy	No

* Up to 4 units parallel (14 kW).

MASTERVOLT AUTOMATIC TRANSFER SYSTEMS WITH SOFT START

Automatically adjusts shore power to the onboard system.

Mastervolt supplies three automatic switching systems for capacities of 6, 9 and 13 kW that - combined with an IVET transformer - adjust shore power to the onboard system.

As a result a 230 V/50 Hz system can easily function with an American or Caribbean shore connection. Do ensure that the frequency on board (50 of 60 Hz) is the same as the frequency of the shore current.

M55010600
M55010900
M55011300

M55003300
M55003400

ISOLATION TRANSFORMERS

IVET-D Isolation Transformers

- High-quality toroidal transformer in robust casing, including circuit breaker
- Standard Soft Start for the suppression of inrush current at shore connection
- Multi-tap version for both 230 V/50 Hz and 120 V/60 Hz shore voltage

IVET Heavy-duty Series

- High-quality isolation transformers without casing (for self installation)
- Optional Soft Start, in synthetic casing
- Capacities of 2.5 kW to 22 kW

M85000250	M85000350	M85000450	M85000600	M85000800	M85001000	M85001300
IVET 2.5	IVET 3.5	IVET 4.5	IVET 6	IVET 8	IVET 10	IVET 13
---------- 110/220/240V (adjustable) ----------						
45-65 Hz	45-65 Hz	45-65 Hz	45-65 Hz	45-65 Hz	45-65 Hz	45-65 Hz
16A	16A	16A	26A	35A	44A	57A
<10W	<10W	<10W	<10W	<10W	<10W	<10W
No	No	No	No	No	No	No
110/220/240V, ± 5%	110/220/240V, ± 5%	110/220/240V, ± 5%	110/220/240V, ± 5%	110/220/240V, ± 5%	110/220/240V, ± 5%	110/220/240V, ± 5%
45-65Hz	45-65Hz	45-65Hz	45-65Hz	45-65Hz	45-65Hz	45-65Hz
Option	Option	Option	Option	Option	Option	Option
n/a	n/a	n/a	n/a	n/a	n/a	n/a
96%	96.5%	97%	>93%	>93%	>93%	>93%
2500W	3500W	4500W	6000W	8000W	10kW	13kW
E-core	E-core	E-core	E-core	E-core	E-core	E-core
330 x 200 x 160	330 x 200 x 185	330 x 240 x 185	380 x 240 x 215	430 x 280 x 210	430 x 280 x 240	490 x 320 x 230
13 x 7.8 x 6.2	13 x 7.8 x 7.3	13 x 9.4 x 7.3	15 x 9.5 x 8.5	16.9 x 11 x 8.3	16.9 x 11 x 9.5	19.3 x 12.6 x 9
22kg (48.5lbs)	30kg (66lbs)	35kg (77lbs)	50kg (110.2lbs)	59kg (130lbs)	75kg (165.4lbs)	90kg (198.4lbs)
---------- 0 - 40ºC, derating with 5% per ºC (40-60ºC) ----------						
n/a	n/a	n/a	n/a	n/a	n/a	n/a
Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
max 95%	max 95%	max 95%	max 95%	max 95%	max 95%	max 95%
IP00	IP00	IP00	IP00	IP00	IP00	IP00
No	No	No	No	No	No	No
No	No	No	No	No	No	No

Transfer systems with Soft Start and automatic detection of input voltage

Model:	6kVA	9kVA	13kVA	Soft Start 13kVA	Soft Start 22kVA
Part No.:	M55010600	M55010900	M55011300	M55003300	M55003400
Voltage:	120/230V	120/230V	120/230V	230V	230V
Power:	6kW	9kW	13kW	2.5-13kW	13-22kW
Max. input current:	60A at 120V - 30A at 230V	80A at 120V - 40A at 230V	130A at 120V - 70A at 230V	n/a	n/a
Dimensions,	400 x 300 x 210mm	400 x 300 x 210mm	400 x 300 x 210mm	---------- 200 x 180 x 115mm ----------	
H x W x D:	15.7 x 11.8 x 8.3"	15.7 x 11.8 x 8.3"	15.7 x 11.8 x 8.3"	---------- 7.9 x 7.1 x 4.5" ----------	
Weight:	12kg (26.5lbs)	12.5kg (27.6lbs)	13kg (28.7lbs)	1.2kg (2.6lbs)	1.5kg (3.3lbs)

Part No.s in red = To Order Only

ELECTRIC PROPULSION

THE NEW SAILING - ELECTRIC PROPULSION

Electric sailing is becoming increasingly popular, mainly because it is quiet, peaceful and comfortable thanks to the absence of engine vibrations and noise. It also meets the desire to be eco-friendly, and you can only enter the world's so-called 'green zones' with silent and emission-free e-propulsion.

PODMASTER

Mastervolt's ideal solution for motor or sailyachts is installed under the hull to save space and minimise sound and vibrations. Enjoy the sound of silence with one of the 12 available PodMasters, ranging from 2 to 10 kW, including seven steerable models and two heavy-duty versions for professional applications.

Solid Motor for Minimal Resistance

The PodMaster is made of seawater-proof aluminium and given six layers of epoxy coating for extra protection. Its shape has been designed to ensure minimal resistance and optimise the propeller water flow. Depending on the model, the bulb contains an ultra-modern, sensor-free, 3-phase permanent magnet synchronised motor or a highly efficient permanent magnet DC motor.

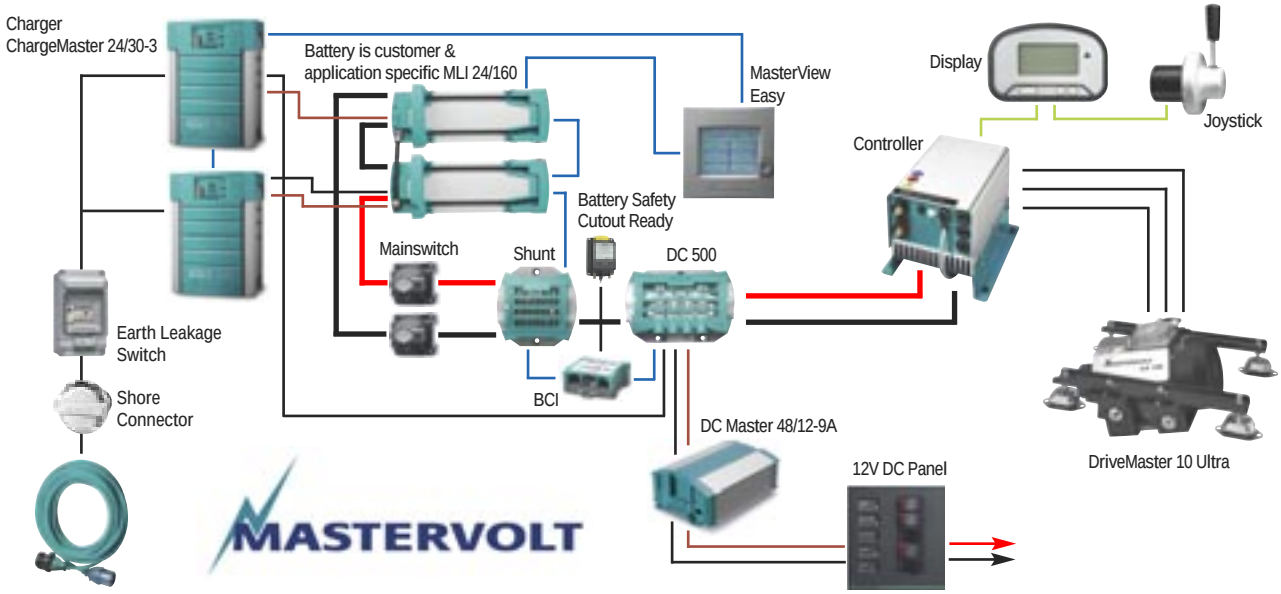
The motor, bearings and plugs were designed for professional use and guarantee years of sailing enjoyment and minimum maintenance. Every PodMaster model is equipped with a propeller that is carefully attuned to the motor to ensure maximum efficiency. The shaft and tail fin were develop to minimise resistance and can be used as rudder for the steerable PodMaster models. To allow installation or use in limited drafts, the PodMaster can be fitted with a stainless steel anti-cavitation plate. Its high capacity and exceptional efficiency ensure that virtually the entire capacity is transferred to the propeller.

PodMaster

PodMaster Steerable

PodMaster Professional

DRIVEMASTER 10 ULTRA



For more Electric Propulsion products contact your local Aquafax sales representative.